The National

Future Farmer

June - July, 1974

Owned and Published by the Future Farmers of America

Internation

Planting with air.

Mother Nature had the right idea– she just blew it.

A gentle breeze and a cushion of air have been nature's planting system for millions of years. So simple it never breaks down. So gentle it's probably never cracked a seed. How can man improve on performance like that?

We tried. But we couldn't beat Mother Nature. So we joined her. We perfected the International Harvester Cyclo® Planter. The simplest planting system next to a soft spring breeze. And with only three moving parts.

Controlled air does all the work. Floating seeds from a single master hopper to the furrow. Result? Such precise and predictable populations that you can even plant beans to a stand—like corn. Plant beans per foot—not pounds per acre.

It's not often you can improve on Mother Nature.

Simplicity is the key to our air system. And this simplicity (and its success) suggest many important future applications. IH is working on them right now. Asking questions like: "What other farm materials—in addition to seed—can be applied by air?" "Can Cyclo help you adapt to the new trend of narrow rows for higher yields?"

We'll find the answers soon. Because looking *back* to nature's simple air system is just one way IH is looking *ahead* for you.

INTERNATIONAL HARVESTER

l® Harvester

We build better machines for the business of farming

The National
Future Farmer

VOLUME 22 NUMBER 5 JUNE-JULY, 1974

Departments

Looking Ahead	6	The Chapter Scoop	32
From The Mailbag	8	FFA In Action	42
Agri-Careers	17	The Joke Page	48

Agri-Emphasis: Machinery

Young No-Tillers Serve	20	How To Save Fuel	23
Inventing A Machine	22	Electrical Safety Counts	24
Building Machinery	22	Farm Shop Is "Hub"	27

Other Features

Touring Far And Near	7	Oral Reasons Can Be Fun!	30
Family Management	14	What Is An FFA Member?	35
Signs For FFA	16	"We All Have A Role"	36
Rice Sheaves For Exhibit	18	Practicing Emergencies:	38
All Members Get To Farm	28	Unite To Succeed	39

Our Cover

In this scene Staples, Minnesota, FFA members learn the proper logging techniques from Instructor Al Lauer as they make fire trails on 80 acres of forest operated by the vocational agriculture department. Laboratory work for the students involves such things as silviculture, surveys, pollution tests, and chain saw maintenance. FFA members regularly harvest larger trees, send the logs to a mill, and use the lumber for constructing va-ag shop projects. Members have replanted the logged areas of the softwood forest with some 20 varieties. In addition, the FFA members are developing 15 acres into a farm woodlot, have access to a 25-acre recreational lake area for identification of hardwoods, and use another 80 acres for wildlife survey studies. The forests are made available to classes at the Woodland Vocational Center which serves students from Carissa and Eagle Bend as well as Staples. Mr. Lauer works with Co-Advisor Jim Hofer in implementing the forestry program at Staples which concentrates on four major areas: (1) Forestry Management, (2) Wildlife and Recreation, (3) Ecology and Environment, and (4) Forest Products Technology.

Photo by Ron Miller

MAGAZINE STAFF

Editor, Wilson W. Carnes; *Associate Editors*, John M. Pitzer, Ronald A. Miller; *Editorial Assistants*, Twila Renirie, Martha Poling; *Circulation Assistants*, Adriana Stagg, Dorothy Hacker; *Promotion Assistant*, Dell Foreband; *Advertising Manager*, Glenn D. Luedke; *Regional Advertising Managers*, Duane G. Leach, Richard A. Wright; *Advertising Assistant*, Laurie Welch.

NATIONAL OFFICERS

National President, Mark Mayfield, Kansas; *National Secretary*, Frederick McClure, Texas; *National Vice Presidents*, Doyle Waybright, Pennsylvania; Jay Phillips, Utah; Jimmy Alvarez, Florida; Keith Mobler, Indiana.

BOARD OF DIRECTORS

Chairman of the Board of Directors, National Advisor, H. N. Hunsicker; *Members of the Board*, Gerald F. Barton, Ralph Dreessen, Philip A. Haight, Gordon Galbraith, H. E. Edwards, John W. Lacey, Byron F. Rawls, J. W. Warren.

NATIONAL STAFF

Executive Secretary, William Paul Gray; *National Treasurer*, J. M. Campbell; *Executive Director*, Edward J. Hawkins; *Controller*, V. Stanley Allen; *Associate Executive Secretary*, Coleman Harris; *Manager of International Programs*, Lenoie Gamage; *Manager of Contests and Awards*, Robert Seefeldt; *Associate Manager of Contests and Awards*, Earl Wineinger; *Director of Information*, Daniel Reuwee; *Acting Manager of FFA Supply Service*, Harry J. Andrews; *Administrative Secretary of FFA Alumni Association*, Jay Benbam.

The National FUTURE FARMER, member of Audit Bureau of Circulations.

ADVERTISING OFFICES

The National FUTURE FARMER
P.O. Box 15130
Alexandria, Virginia 22309 703-360-3600

Whaley-Simpson Company
6725 Sunset Boulevard
Los Angeles, California 90028 213-463-7157

530 Washington Street
San Francisco, California 94111 415-781-4583

CHANGE OF ADDRESS

Send both old and new addresses to Circulation Dept., *The National FUTURE FARMER*, P.O. Box 15130, Alexandria, Virginia 22309.

CORRESPONDENCE

Address all correspondence to: *THE NATIONAL FUTURE FARMER*, P.O. Box 15130, Alexandria, Virginia 22309. Offices are located at the National FFA Center at 5630 Mt. Vernon Highway, Alexandria, Virginia 22309.

The National FUTURE FARMER is published bimonthly by the Future Farmers of America at 5630 Mount Vernon Highway, Alexandria, Virginia 22309. Second class postage paid at Alexandria, Virginia, and at additional mailing offices. Copyright 1974 by the Future Farmers of America.

Single subscription, $1.00 per year in U.S. and possessions. Single copies 20c. Foreign subscriptions, $1.00 plus 60c extra for postage.

FFA Membership Up

GOOD news in the membership department. FFA membership will exceed 460,000 this year, the highest on record.

Measured in numbers, this was the most successful year to date for the FFA. And no doubt it was in other ways, too. But the real good news is that so many students have elected to study vocational agriculture and join the FFA. Their early choice of a career in agriculture should help ensure an adequate food supply for this country.

Update Children's Barnyards

Should we give "Old MacDonald's Farm" back to the MacDonalds?

Well, not entirely but perhaps some FFA chapters should take another look at their Children's Barnyard. Do they project the right image of today's farmer?

One person concerned about this is Dan Reuwee, FFA's director of information. Dan agrees the Children's Barnyard idea is basically a good one, and he does not suggest that it be discontinued. Instead he feels they should be updated.

Dan suggests that these agricultural exhibits ought to take on a new look. They need to be more educational with less emphasis on the bunny rabbits and the bantam roosters, and more emphasis on the real production of animals and crops. We need to show people where food comes from and what it takes to get food on the table.

Miller Leaves Magazine

After 5½ years as associate editor on *The National FUTURE FARMER* staff, Ronald Miller is leaving the magazine to take a position with Johnson Hill Press, Ft. Atkinson, Wisconsin. The change will enable Ron to return to his home state but he expressed "deep regret" at breaking his ties with the FFA. He was a member of the FFA during his high school days at Waupun, Beaver Dam, and Columbus, Wisconsin. Ron's articles and photos will be missed, but we wish him well in his new position.

Wilson Carnes, **Editor**

The 40,000 mile Firestone Steel Radial 500 can give you up to 30 extra miles from every tankful of gas...

When we matched our Steel Radial 500™ against our own belted bias tire, the Steel Radial 500 proved it could deliver up to 30 extra miles of highway driving from a fillup. Ask your Firestone Dealer or Store for the complete test data. It'll show you how to put extra trips into every tankful of gas you buy.

...plus a 7 day, money back test ride.

You want to make sure that the tires you choose are the radials you'll like best. You want gas saving, plus a smooth ride, the quick, positive handling, and the steel belted strength you've read about.

Firestone is so sure of its Steel Radial 500, that you can buy a set and drive them for seven days, and get every cent back if there's anything about them you don't like. Do you know of anyone else with that kind of a promise built into a radial tire?

Firestone Steel Radial 500. The radial that's got it all. Only from Firestone.

Firestone
Steel Radial 500
The Gas Saver

hunting hints

When a covey of birds explodes in front of you, the temptation to shoot into the thickest part of it is almost too much to resist. But no matter how closely bunched it is, the covey pattern contains more air space than birds, so the chance of not hitting a bird is much greater than the chance of hitting one. Pick one bird and stay on it until it comes down. Then pick another if you still have time for a double.

H. G. TAPPLY, Editor — Field & Stream

SPECIAL OFFER. A 32-page book on "Upland Game Birds" and a 24-page book on "Big Game Animals". Loaded with facts and full color photographs. Send 50¢ for each, plus your name and address to: Federal Book Offer, Box 625, Maple Plain, Minnesota 55359.

For everything from plinking to big game hunting, clay targets to wild turkeys, Federal concentrates on producing the finest ammunition available to sportsmen.

AMMO IS OUR ONLY BUSINESS

FEDERAL®

CARTRIDGE CORPORATION

MINNEAPOLIS, MINNESOTA 55402

Looking Ahead

Livestock

UNCERTAIN BEEF INDUSTRY—With the nation's beef cow herd trending rapidly upward more young beef animals are going into the feedlot than a year ago, says Iowa State Economist Gene Futrell. As a result, supplies for slaughter will be larger late this year and in 1975. The economist sees cattle prices averaging lower in 1975 but a favorable 1974 crop will push feed prices down and returns will climb into the profit column again.

LONG RUN HOG MARKET—The current lower hundred-weight prices for hogs may have a good effect, according to Mr. Nicholas Simpson, of Swine Management Consulting, Chicago. The reduced profit margins will drive a lot of producers out of business, but this should eventually increase the stability of the market price. The key to getting through the price crisis will be the efficiency of the operation, not size, per se.

Crops

HIGH LYSINE SORGHUM IDENTIFIED—Purdue University plant researchers recently discovered sorghum lines containing twice as much lysine as average sorghum varieties. According to Dr. John Axtell, credited along with Dr. Rameshar Singh for much of the effort, the mutant gene in sorghum is inherited as a single gene the same as in corn. The discovery of lysine in sorghum—the fourth most important cereal grain in the world —will help lead to a better human diet, especially in parts of Africa and Asia where sorghum is the principal grain.

A DOUBLE CROP YEAR—Following wheat with soybeans this summer could increase your net farm income by $30 to $60 per acre, according to Farm Economists Richard Duvick and John Moore, of Ohio State University. The current price outlook on soybeans improves the chances for profit this year. Management factors crucial to success are: planting dates, moisture conservation, row width, weed control, and variety. A good thumb rule to double cropping is "if June is dry, don't try."

GREATER PESTICIDE DEMAND—The attempt by farmers to save fuel will put more stress on the availability of petroleum-based pesticides this year, according to the USDA Economic Research Service. Less cultivation will naturally require the use of more chemicals to control weeds and can result in spotty shortages. Several industry sources also speculate 1974 prices to go over last year's by around 15 percent.

Management

LAND VALUES SLACKENING—USDA economists foresee some slackening in the rate of gain of land values for 1974. Prices paid by farmers rising faster than prices received, virtual elimination of farm program payments, recovery of world food production and consequent falling off in demand for U.S. exports, and less expansion in monetary policy are the reasons why farm real estate prices will rise more slowly this year.

1974 FARM CENSUS YEAR—Farmers are urged by the Bureau of Census to keep good records so they will have little trouble in filling out forms next year. Farmers will receive the census forms in January, 1975, and the data gathered will be similar to that of the 1969 census. Individual farm operator information is confidential and is used only in determining the total statistics of American agriculture.

1974 Sponsoring Committee Chairman Robert Walston, of Funk's, met with FFA leaders in Bloomington, Illinois.

In New York City the officers visited the Fashion Institute of Technology.

Touring Far and Near for You

Every year the National FFA Officers go on tour to promote FFA and vo-ag on your behalf. Here's what they did for six weeks this year.

THIS year's National Officer Tour took your FFA leaders to 23 cities and 14 states to meet with businessmen, organizational leaders, and government officials. During the tour the National FFA Officers used the FFA WEEK theme, "For tomorrow's agriculture," to tell about the importance of vocational agriculture and the FFA to the industry of agriculture and the FFA to the industry of agriculture and the future of America.

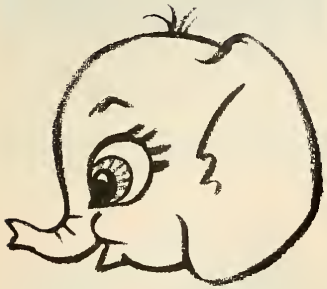
Your FFA officers toured the facilities of meat packing firms, railroads, airlines, tire and electric companies, machinery manufacturers, banks and financial institutions, breed and civic associations, power companies, broadcasting stations, and publishing companies. They also met with governors, USDA officials, and the Vice President of the United States. The few scenes shown here depict the varied activities of the National FFA Officers while on the 27th annual tour.

FFA sponsors were honored in Alabama during a statewide banquet meeting.

While in Cleveland your FFA leaders talked with students and officials of the horticulture departments.

Agribusinesses like Smith, Kline Animal Health Products of Philadelphia, showed the officers their facilities.

Over $5,000 in prizes
Awarded Monthly



Draw "Lulu"

Let "Lulu" help you test your talent. You may win one of five $845.00 Commercial Art Scholarships or any one of seventy-five $10.00 cash prizes!

Draw "Lulu" any size except like a tracing. Use pencil. Every qualified entrant receives a free professional estimate of his art talent.

Each winner receives a two year scholarship in commercial art taught by Art Instruction Schools, Inc., one of America's leading home study art schools.

Try for an art scholarship that may lead you into the exciting fields of advertising art and illustrating, cartooning or painting. Your entry will be judged in the month received but not later than July 31, 1974. Prizes awarded for best drawings of various subjects received from qualified entrants age 14 and over. One $25 cash award for the best drawing from entrants age 12 and 13. No drawings can be returned. Our students and professional artists not eligible. Contest winners will be notified. Send your entry today.

MAIL THIS COUPON TO ENTER CONTEST

ART INSTRUCTION SCHOOLS, INC.
Studio 4U-3540
500 South Fourth Street
Minneapolis, Minnesota 55415

Please enter my drawing in your monthly contest. (PLEASE PRINT)

Name_____

Occupation_____ Age_____

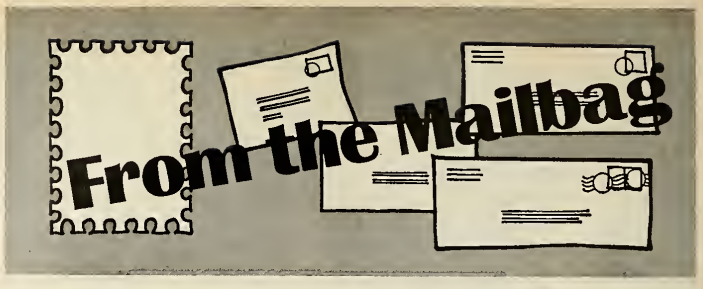
Address_____ Apt._____

City_____ State_____

County_____ Zip Code_____

Telephone Number_____

Accredited by the Accrediting Commission of the National Home Study Council.



New Virginia, Iowa

I am writing in regard to a certain article which appeared in one of your magazines some years ago. I would say probably 1963. It is called, "Panther in the Pasture." It deserves to be printed again—ten years later. It was the funniest story I have ever read. I read it three times and nearly died laughing. The first time I laughed so hard I nearly blacked out.

Anyhow, I am writing in hopes you might be able to get me a copy of this article. I can't tell you what month but it had to be in 1963 when my oldest boy was in FFA. I sincerely thank you. If this is not possible, I will understand.

Mrs. Kenneth Meyer

We are sending a copy of the article as requested. Your letter caused me to read the article and laugh again.—Ed.

Juncos, Puerto Rico

I am very happy to belong to the FFA organization because here in Puerto Rico everyone knows that this is the most wonderful and important organization that one has ever seen.

I would like to go (in the not too distant future) to one of the National Conventions because I love farmers working.

Carmen Viera

Stanwood, Washington

In your December-January issue you had an article that I think more magazines should have. It was on career exploration. It was something that gives young people an idea on what to expect from a job or college interview. And I thought it was a real interesting article.

Julie Guptil

Dawsonville, Georgia

Our chapter has won the State Forestry Day in Georgia. It is my duty as chapter reporter to let the people know about our chapter's accomplishments.

I would like to know if you would give me permission to send pictures and other information of this event as well as other things our chapter has done.

Dwight Townley

Every chapter is encouraged to send in news, ideas, stories, photos, and information about their programs, activities, and special events.

The editors will give it consideration for possible use in a future issue. If we need more information we will contact you.

Consideration is given to real news value especially to the national interest, timeliness, and quality of photos (clarity, good arrangement of the scene, unposed).

Try to get down all the facts for us and then we can arrange them. The fact that you won the event is just part of the story. How many members participated or gained experience from the event? Why did your chapter enter? What benefits will there be for the chapter or its members, the community or its agriculture?—Ed.

Chicago, Illinois

My heartiest congratulations to you on the story on pages 44 and 46 of your February-March 1974 issue of *The National FUTURE FARMER*. Mr. Jack Pitzer has done an excellent job of getting some of the highlights of the National Safety Council's Defensive Driving Course.

We are, of course, delighted to see you calling attention to this program in *The National FUTURE FARMER* magazine as we firmly believe that this is an excellent traffic safety activity in which Future Farmers of America chapters can become involved. By becoming involved, they not only can increase the driver efficiency of FFA members but this program lends itself so well to a community service activity. Further, I am delighted to see that attention will be devoted to this program in succeeding issues.

Please be assured you have the full support of the National Safety Council and of the Youth Activities Department, in particular, in working with FFA chapters throughout the country in making this program a reality in their community.

Harold E. Heldreth
Manager
Youth Activities Department
National Safety Council

Blacksburg, Virginia

I wanted to tell you how much I appreciate the excellent article on "Building a Better Alumni" contained in the December-January issue of *The National FUTURE FARMER*. Certainly the support of your staff is greatly appreciated and in part because of it the National FFA Alumni Association is moving strongly into its third year of operation.

I believe that the Alumni will be helped greatly by the addition of the eleventh area to the National FFA Program of Activities. This area deals with FFA Alumni relations. Perhaps after a year of operation an article might be written concerning the type of activities carried out by local FFA chapters in promoting the FFA Alumni.

James P. Clouse, Professor
Agricultural Education
Virginia Polytechnic Institute and State University

Wrangler's got a printed patchwork, corduroy, faded denim-colored jeans suit. Get it and you've got it all.

As the fabric continues to fade, it never loses the multi-toned effect. Jacket and pants available separately.

Wrangler Sportswear. Wremember the "W" is Silent.

Wrangler® Sportswear, 350 Fifth Avenue, New York 10001. 1974 Blue Bell, Inc.

Take 2 years of Army before college.

If you're a high school graduate ready to take full advantage of college this fall, by all means go to it. But if you think you'd get more out of college a little later, consider the benefits of 2 years of Army.

Guaranteed job-training, or duty in Europe. With our 2-year enlistment, you can choose from a wide range of job-training courses, and if you qualify, have that training guaranteed in writing before you enlist.

Or, you can choose to serve in Europe. Either way, you get a starting salary of $326.10 a month before deductions, with a raise to $363.30 in just four months.

Enlist now, go 6 months later. This is like having your cake and eating it, too. With the Army's Delayed Entry Option, you can enlist today, get your decision out of the way, and not have to report for up to six months, depending on the job-training you sign for.

If you'd like to try college while still in the Army, you can attend classes on post or at a nearby college. With the Army paying 75% of your tuition.

And when your enlistment's over, there's up to 36 months of financial assistance at the college of your choice.

Call your Army Representative at 800-523-4800.

(In Pa., call 800-462-4955.)

Family Management, the Key to

The progress of these FFA members in the hog business vividly reveals the importance of family ownership and profit for the American farmer.

Advisor Kleinsasser, left, has had the pleasure of being involved in the progress of the Bullers—Gary, pointing, Mr. Buller, Randy, Douglas, and Dave.

Photos by Author

OPERATING over 600 acres of land and farrowing 760 litters of hogs per year demands high quality management. And that's just what the William Buller family of Brookings, South Dakota, has.

Over the years the Bullers—including four FFA members and their father—have taken advantage of each individual's special talents in producing between 5,000 and 6,000 head of feeder pigs a year. This management ability has been particularly instrumental in the success of their farming operation as well as their outside activities.

The oldest son Dave, who will become manager of the swine operation after college graduation, is responsible for the farrowing set up. He manages two farrowing houses containing 92 stalls and the 700-head nursery with the assistance of his youngest brother Randy, a past district FFA secretary. Their duties include giving shots to the little pigs, castrating, caring for the sows, and disinfecting the barns and stalls for a new group of sows.

"Regardless of the money you spend on equipment and facilities, chances are it will have little to do with the number or weight of the pigs you wean," warns Dave, an American Farmer degree holder and past state officer. "It keeps coming back to us that caring for the hogs like they are almost human makes the difference between success and failure."

Along this line Randy says, "For the comfort of the hogs we recently changed our slats from wood to aluminum. It increased our weaned pig average and makes it easier to clean pens."

Gary, the second oldest and a past state president, takes care of the gestating sows with help from Douglas, a past president of the Brookings Chapter. They handle the feeding, spraying, worming, sorting, and breeding of the sows in two 160-head gestation barns and 170 outdoor feeding stalls.

"Keeping the breeding program on schedule is my most important responsibility," emphasizes Gary, a 1973 national officer candidate and American Farmer degree recipient. "We have the herd divided into three groups with each farrowing twice a year. To keep the records straight on six large farrowings we use eartags."

ɔuccess

By Ron Miller

Referring to the gestation program Douglas points out, "We limit feed the sows to improve feed efficiency and litter size. Gary and dad set up the rations."

Gary adds, "We are constantly checking and experimenting with various feed mixtures to improve our production."

While the brothers are away from the farm fulfilling FFA duties Mr. Buller, a former state president and recipient of the American Farmer degree, carries a bigger work load. But Mr. Buller happily says, "The FFA offers so many opportunities to develop oneself. I am happy my sons have had a chance to participate in the FFA."

While in the FFA each brother earned his way into the farming enterprise by borrowing money from their father to purchase his first sow. As each son's program expanded Mr. Buller allowed him to develop it in his own way.

Dave now owns 90 Chester White sows and gilts plus three Duroc boars. He also owns 174 acres.

Gary's sows and gilts number 70 head of Durocs and two Yorkshire boars. He cash rents 80 acres to support his herd.

Douglas, the third eldest, rents 95 acres to grow feed for his Chester White herd of 30 sows and 10 gilts. Meanwhile, Randy owns 20 Yorkshire sows and rents 155 acres of land.

"Dad has agreed to incorporate the farm when I graduate," says Dave, who will receive a degree in animal and plant science from South Dakota State University (SDSU) located just ten miles from the farm. During college he led the SDSU Collegiate FFA and the Brooking FFA Alumni Affiliate as president. Adding to his experience Dave participated in the FFA Work Experience Abroad program in Sweden and served as secretary of the state FFA Alumni Association, secretary of the local pork council, and vice president of the SDSU Jaycees.

Gary is also studying agricultural engineering at SDSU and, like Dave and his father, earned the State Star Farmer award. He is listed in *Outstanding Teenagers of America*, is a member of the American Society of Agricultural Engineers, and is starting guard for the SDSU football team.

Douglas, who holds the State Farmer degree, too, is studying carpentry at the area vo-tech school. He served his chapter as president and earned proficiency awards in farm mechanics, livestock, and crops. Douglas, an excellent bowler, is a member of both the local doubles and team bowling champions.

Like his older brothers, Randy is finding his way to success in the FFA under the direction of Advisor Jerry Kleinsasser who has taught vo-ag to all of the brothers. Randy holds the Chapter Farmer degree, served as chapter secretary, and won the chapter public speaking contest. As a free-style wrestler he has placed high in regional tournaments and participated in the state high school wrestling tournament.

"When it comes to field work no one has a specific job, says Mr. Buller, a five-time state corn picking champion and a two-time national mechanical picker-sheller champion. "Everyone pitches in to do the tilling, planting, and harvesting as well as the crop records."

They raise oats, wheat, flax, alfalfa, and corn. Their corn is grown under minimum tillage conditions in 30-inch rows. About 200 acres of their 643 acres of land is irrigated with center pivot machines.

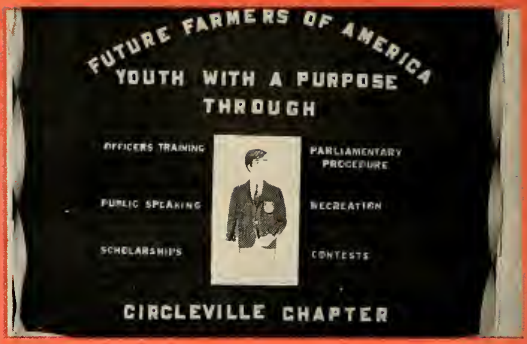
Most of the Buller's facilities—including the modern farrowing, nursery, and finishing barns as well as the automatic liquid manure systems—have been constructed or installed by the operators. They do all of their own cement work and have just completed a partially slotted-floor building for finishing part of their stock.

"One thing a hog producer cannot afford is to stand still. He must look ahead to the next five or ten years and try to determine what he must do to be competitive," remarks Dave. "Accurate records are a must. They show you where you have been and tell you where you are going."

With this in mind, Mr. Buller, a past president of the South Dakota Pork Council, explains, "We plan to add another partially slotted-floor finishing barn and an open-front gestation barn in the near future." Most of their feeder pigs are now being sold at the Sioux Falls Public Stockyards pig auction.

So as you can see, the major force in the success and future of the Bullers' farming business is family management. As Gary puts it, "The most important factor in swine production is management. It requires the most time, but I believe it is the key to success in any operation."

(Top) Nursing sows are Randy's prime responsibility. (Left) Dave oversees the disposal of liquid wastes. (Bottom) At feeding time Douglas, front, and Gary check the gestating sows.



The Circleville, West Virginia, Chapter uses bulletin board signs like this to promote FFA to other students.

Members of the San Bernardino, California, Chapter cemented this 28-foot long by 12-foot wide "FFA" sign on a hill of their pasture located behind the high school.

Signs for FFA

Here's how some chapters use them for publicity.

Football fans from Sanger, Texas, see this cement block marker when they drive into the adjacent parking lot.

LIKE many chapters the Wynford FFA at Bucyrus, Ohio, promotes their activities with signs. The public relations committee—manned by sophomore members, the chapter reporter, and a chairman—erected four signs on highways approaching the Wynford High School. The chapter further sponsored a billboard which was erected by an outdoor advertising firm and remained up for about five months.

The Wynford public relations committee distributes another form of sign—a bumper sticker promoting "I'm proud to be a farmer." They sold about 250 at a below cost price to promote the business of farming. The committee also uses signs in a centrally located display case at the high school to publicize agricultural studies and FFA activities being conducted each month.

In addition to using all types of signs to promote their chapter, the Wynford public relations committee complements their program with a most important tool—a camera for news distribution.

And that's just how *The National FUTURE FARMER* learned about a variety of signs being employed by other FFA chapters. Many of the signs shown here tell a familiar story. However, the various constructions may provide your chapter with some new ideas for future public relations campaigns.

The Fairbanks FFA rents a farm near Milford Center, Ohio, to raise cash crops and run educational test plots. The farm sign not only informs people about the chapter and owner but also lists the donors to the project.

Big jobs in food

THE food processing industry is big—both in the number of employees working for them and their payrolls. Statistics from an annual survey of food manufacturers conducted by the USDA point out the scope of the industry.

The meat and poultry industry, for example, employs about 310,000 persons and pays out over $2 billion a year in wages. The dairy industry —including fluid, concentrated, and dried milk, natural cheese, butter, ice cream, and other products—has an annual payroll of more than $1.5 billion and a work force of almost 200,000 people.

Moreover, the baking industry and manufacturers of processed fruits and vegetables together pay out over $3 billion annually to more than 425,000 persons.

There are several ways for interested individuals to enter a career in the food processing industry. A person may obtain a job with a processing plant upon graduation from vocational agriculture in high school. Or you may seek a degree from a vocational-technical school or four-year college in food preparation, processing, or management.

Another possibility is to enlist in a branch of the military service under their food service program.

Military food service experience prepares one for other jobs, too. *Army Photo*

The Marines, Navy, Army, and Air Force all have optional programs for those interested in becoming cooks or bakers.

Military food service personnel learn how to prepare food for hundreds of men in the field and in the mess hall. They also find out how to cater formal dinners and luncheons as well as how to make seating and floral arrangements.

The professional food service experience gained in any one of the branches of service further qualifies individuals for many exciting civilian career opportunities. In fact, everything from chefs to administrative food specialists are in demand by hotels, catering services, restaurants, food chains, bakeries, and other food handling businesses.

Career Shorts

Agricultural Boom. "In terms of jobs, agricultural exports generated more than 450,000 non-farm jobs in fiscal 1973," says Administrator David Hume, of the USDA Foreign Agricultural Service. "Add to that the farm workers required to produce for export, and you get close to one million people working at jobs related to producing and exporting agricultural products."

Graduate Demand. Demand for graduates of agricultural colleges is expanding despite a drop in farm and ranch populations according to Dr. Burton Brage, associate dean of resident instruction at South Dakota State University. The most demand is for students in dairy manufacturing, agricultural chemicals, vocational agriculture, and public relations. Many graduates, of course, are returning to farming and ranching.

Enrollment Trends. The number of men graduating from high school has leveled off, says Associate Dean Louis Thompson, of Iowa State's College of Agriculture, in a recent *Iowa Agriculturist* article. However, he doesn't believe college enrollment in agriculture will drop because less than 10 percent of the college's students are women and their numbers appear to be increasing. In fact, a survey of land grant colleges throughout the nation reveals there are 14,576 women studying agriculture this year as compared to 73,310 men.

Career Profile

Forestry Aids. Persons interested in becoming forestry aids generally need one or two years of training in technical institutes, junior colleges, or ranger schools. Some jobs require only two seasons of related outdoor experience such as fighting fires and felling or planting trees.

Forestry aids assist foresters in managing timberlands and associate resources. Their duties include scaling logs, marking trees, recording forest data, installing scientific equipment, inventorying burned out areas, plus other technical jobs. Forestry aids can advance to various forestry technician positions and eventually supervise timber operations, research activities, or survey crews.

Annual earnings of forestry aids range from approximately $4,000 to $9,000. Beginning wages for persons with technical education in forestry, as you would expect, run higher than for those immediately out of high school.

Employment opportunities for forestry aids are expected to increase rapidly throughout the remainder of the 1970's. Federal and state governments will employ more forestry aids but the bulk of the expansion will come from additional career opportunities in private business as the demand for wood products rises. A career as a forestry aid is truly for the outdoorsman with physical stamina.

More Career Information

Equipment Retailing: *Careers in Farm and Power Equipment Retailing.* Free from National Farm & Power Equipment Dealers Association, 2340 Hampton Ave., St. Louis, Missouri 63139.

Floral Industry: *Careers in the Floral Industry.* Free from Florist Information Committee, Society of American Florists, 901 N. Washington St., Alexandria, Virginia 22314.

Landscaping: *Environmental Improvement Requires Youth Talent.* Single copy free with self-addressed, stamped, business-sized envelope; quantities at 75 cents for 25 copies from American Association of Nurserymen, 230 Southern Building, 15th & H Streets, N.W., Washington, D.C. 20005.

Rice Sheaves For Exhibit

Competition stimulates these vo-ag students to learn about the area's major farm crop.

This type of box is used by FFA members to line up stalks when sheafing.

THE exhibition of rice sheaves is one of the major projects undertaken each year by the Vidrine, Louisiana, FFA Chapter. This annual activity provides not only competition with other chapters but competition among the local members as well.

Emphasis is placed on exhibiting of rice sheaves because it lets FFA members at Ville Platte work with the most important local agricultural product. Each member manages his own field of rice as part of his supervised vo-ag farming program. They keep the premium money won from their sheaves, and in some years the members have captured as much as $450 in total winnings during a single year.

Selection and Cutting. Normally rice is ready for selection and cutting some five months from the time it is planted. Two months are required for sheaf preparation and curing before it is ready to exhibit.

Vidrine members cut sheaf rice about two days before they begin to harvest the crop. This allows ample time for a member to return to the field for more rice if the need arises. Each stalk is cut about six inches above the ground to insure that the exhibit will meet the required minimum length of 12 inches.

Curing Process. Next the members strip the leaves off the stalks and hang the rice out to dry. They take care not to expose the rice to the hot sun for long periods at a time as overexposure causes the rice to crack.

Members tie bundles at the top of the stalks so the rice heads hang loose, allowing for maximum air circulation throughout the rice. As the stalks dry, it is necessary to tighten the ties on the bundles about every other day.

During what the farmers call "wet years" members have trouble with rice mildewing. Even though this problem is serious to the sheaf maker it can be countered by applying chemicals to remove the mildew from the stalks.

Sheafing. To make a sheaf the rice is lined up with the last node on each stalk being placed side by side. A specially designed box enables FFA members to place each rice stalk in line with the others.

International Rice Festival sheaf specifications require a minimum one-inch diameter and a maximum five-inch diameter. Each Vidrine member is encouraged to incorporate at least 1,000 stalks in a sheaf. The best exhibits are usually those sheaves just under the maximum requirement.

When the 1,000 stalks are put together in the box, the first of four ties is made close to the rice heads. Before making the other ties members completely strip the sheaths from the outer stalks. This is done by cutting the stalk at the node and slipping the sheath off. The three remaining ties are then made approximately five inches apart. After all ties are made, the sheaves are cut at a point about 15 inches from the heads.

Thirty-five members of the Vidrine Chapter made and exhibited 55 sheaves at the past Louisiana State Fair in Shreveport and the International Rice Festival in Crowley. Both events are held annually in October. The sheaves included such varieties as Saturn, Vista, Star Bonnet, Nato, Toro, Nova, Blue Belle, and Belle Patna.

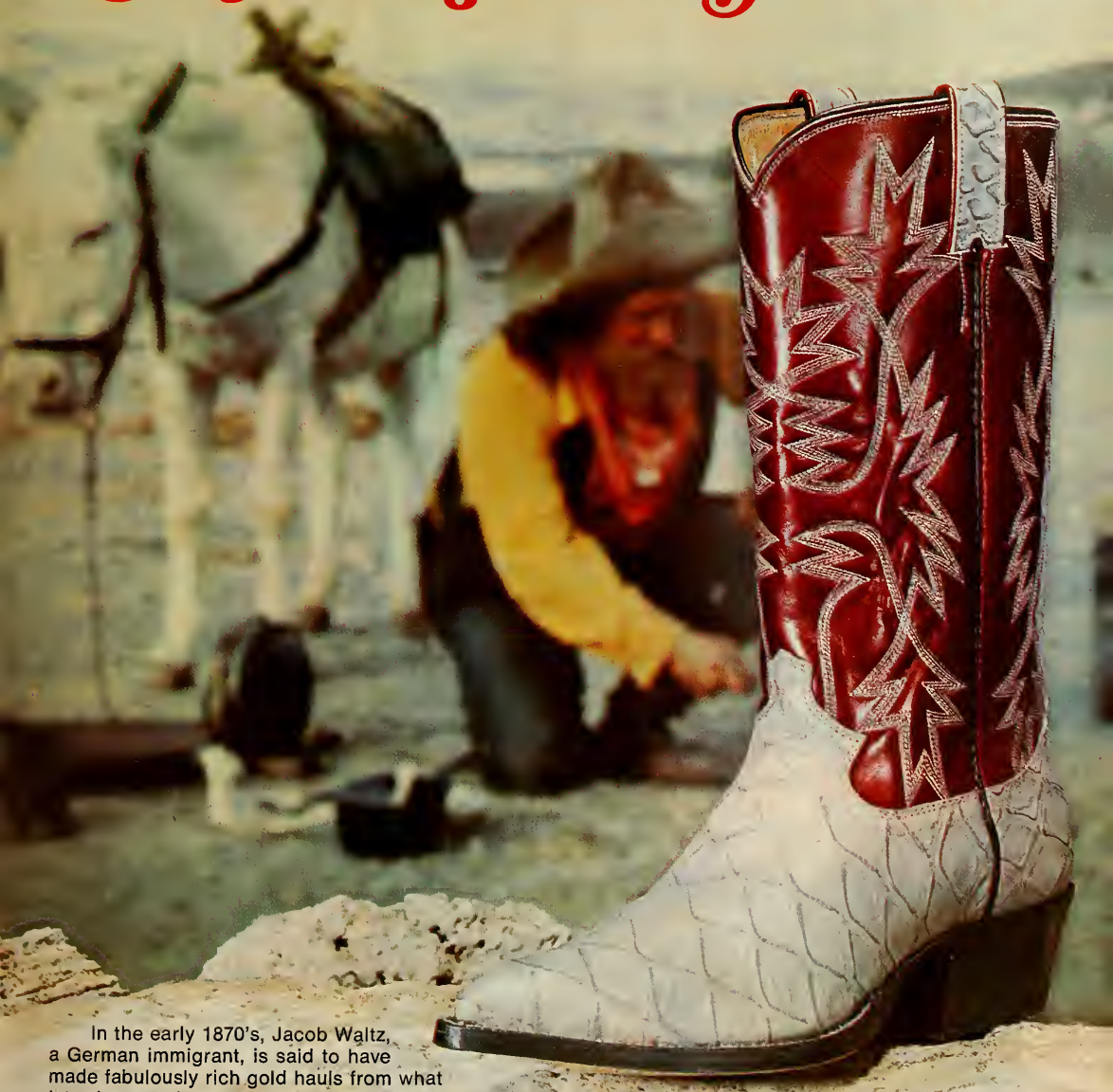
The International Rice Festival in Crowley, a city known as the "Rice Capital of the World," features world-wide competition and includes milling rice as well as rice sheaves.

Milling rice is exhibited in the same condition as it was when taken from the combine. It is graded according to the value placed on a sample. The value is determined mostly by the milling quality of the rice. A grading contest for rough rice graders and buyers from around the world is also held.

The extremely high premiums offered at the rice festival are an incentive for FFA members to participate. Many of the members also prepare and sell rice sheaves each year to the Louisiana Rice Council. The Council uses these rice sheaves to publicize the rice industry throughout the United States. *(By Robert Gus Miller, Advisor)*

The rice is hung with the heads down in bundles of 50 stalks during the curing process. FFA members tighten the ties every other day as the bundles dry.

The Justin Hall Of Fame



In the early 1870's, Jacob Waltz, a German immigrant, is said to have made fabulously rich gold hauls from what later became known as the legendary Lost Dutchman Mine. The secret of the mine's location in Arizona's Superstition Mountains was carried by the wily Dutchman to his grave.

At the end of that decade, in 1879, the Justin Company was founded with a hammer, an awl and a workbench in a tiny building in Spanish Fort, Texas.

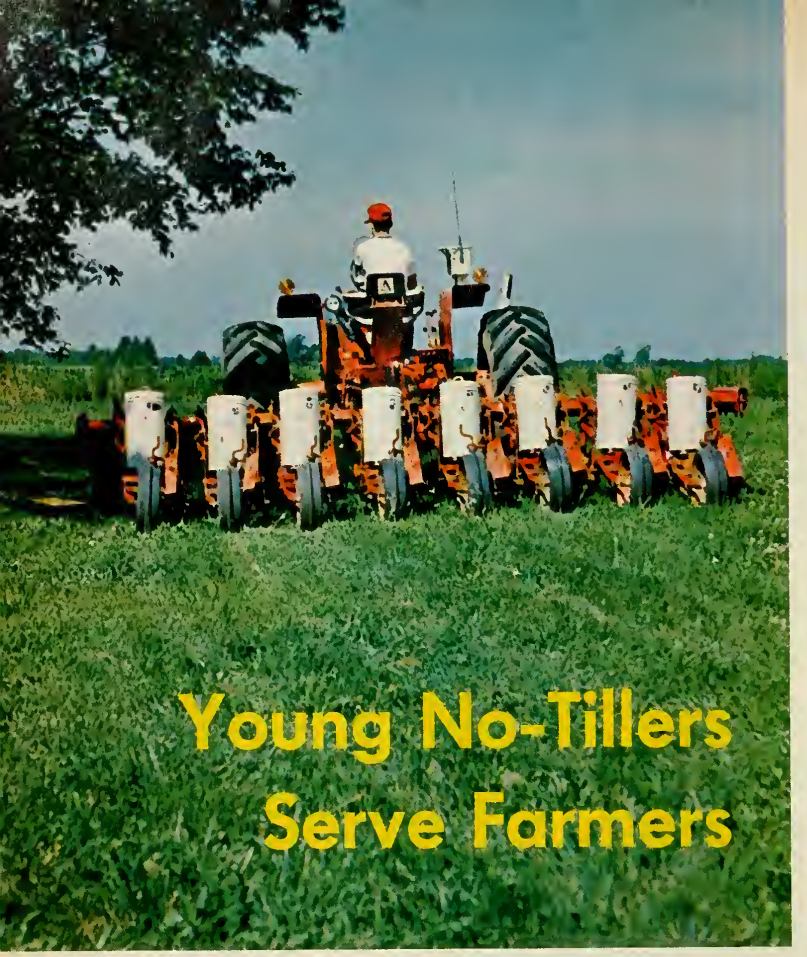
Now, to commemorate its ninety-fifth year, Justin presents boot style 6792 in genuine anteater.

Justin

95 Years Of Quality

Call 800-243-6000 toll-free anytime for the name of your nearest Justin Dealer (in Connecticut call 800-882-6500).

Box 548 Fort Worth, Texas 76101



Young No-Tillers Serve Farmers

This chapter introduced farmers in their area to the no-tillage concept.

FINDING meaningful summer activities for young people has become a traditional problem in many areas of the United States.

This wasn't the case for 50 members of the Cowden-Herrick, Illinois, FFA Chapter. Recognizing the problem, they decided to gain experience by custom planting minimum tillage crops as a money making venture for the chapter. They expected 1973 to be a good farm year and that farmers, especially if they were running late, would want to get into the fields quickly when good weather came. For this reason, farmers might be willing to try minimum tillage farming and double cropping without actually investing in a planter.

The optimum planting time for corn, soybeans, sorghum, and other area crops, is limited to a few weeks in the spring or summer months. Quick service could assure profitability for the farmers. This was the basis for the summer project.

"The major problem facing the members was how to gain acceptability for minimum tillage farming," recalls Advisor Jim Shaffer. Prior to the FFA venture, only two area farmers had attempted minimum tillage and they had double cropped soybeans. The chapter wanted to plant spring crops.

"I suppose this posed the real challenge for the members," adds the advisor. "Minimum tillage farming was a relatively new technique. I am glad it proved worthwhile. In fact, the group made enough profit to finance an expanded farming program this year while gaining practical farming experience." Members that operate the planter in 1974 will also be paid.

Reasons for choosing minimum tillage rather than the conventional farming methods included: limited time since members had to do most of the spring planting after school; less cost, especially reduced fuel consumption, for added profit; and optimum soil conditions.

"The area has a claypan subsoil which sometimes dries out when plowed so that crop roots can't penetrate. Rain can also turn the light soil into 'concrete.' By not disturbing the mulch cover, moisture could be conserved," Mr. Shaffer explains.

After the decision was made to go minimum tillage, the members contact-

(Continued on Page 26)

Brad Sarver, left, and Tim Summers refill the planter boxes of the no-till planter purchased by the chapter. About 25 members assisted in the project.

How often do you get two chances at the same four-year scholarship?

This year, for the first time, Army ROTC offers you this opportunity. If you apply for a four-year Army ROTC Scholarship between July 1 and September 1, you may be considered twice.

All completed applications received by September 1 will be considered for an initial 300 four-year scholarships. Winners of these scholarships will be announced on October 15.

If you do not win one of the 300 scholarships, your application is automatically placed in competition for one of the approximately 700 four-year scholarships which will be awarded on April 1, 1975. Failure to win during the early cycle will not adversely affect your application, as the regular selection board will not know that you competed during the early cycle.

Army ROTC Scholarships pay tuition, books and lab fees, and provide a tax-free subsistence allowance of $100 a month, for up to 10 months of the school year. The scholarships may be used at any of the 290 colleges and universities which host the Army ROTC program.

Deadline for all four-year Army ROTC Scholarship applications is December 1. But, if you want to be among those who have two opportunities for a scholarship, get your application completed early. See your guidance counselor now to register for the SAT or ACT tests.

Army ROTC. The more you look at it, the better it looks.

Army ROTC
P.O. Box 12703
Philadelphia, Pennsylvania 19134
Tell me more about Army ROTC Scholarships.

Mrs.
Miss
Mr. _____ Age _____

Address _____

City _____ County _____

State _____ Zip _____

High School Attending _____ Phone _____

College Planning to Attend _____

Social Security Number _____

NFF-4-06-01

Inventing A Machine

. . . For Tractor Pulling Contests.

Advisor William Simmons is the inventor of the tractor pull machine.

A SUMMER activity for farmers in Augusta, Rockingham, and other Virginia counties is an area tractor pulling contest. It gives the farmers a chance to prove their tractors' pulling ability and to compete with other farmers for local awards.

Due to the lack of a mechanical device, the tractor pulling contest was previously performed in a crude manner. A sled dragged by the tractor is pulled over a 200-foot pulling area, 20 feet wide. On both sides of the course, men are posted at 5-foot intervals. As the tractor-drawn sled is pulled through the course the men in turn step onto the sled weighting it down until the tractor can pull it no further. The distance is then measured and recorded.

However, Vocational Agriculture Instructor William Simmons and his shop students at Fort Defiance modernized things by building a mechanized "drag cart." Advisor Simmons says, "The old tractor pull method was very practical for small tractors but with the coming of big tractors came the need for a machine. Men just can't stop the new, big tractors."

After attending many contests in other counties, Advisor Simmons noticed the crowds drawn by this event and decided to construct a "drag" machine. Instructor Simmons designed the machine and with the help of his farm shop classes completed construction of his invention.

As summer progressed the cart was tested, modified, retested, and adjusted. Finally it was ready for its first contest run.

The machine works on the same principle as the old pulling method, only mechanically, and is mounted on a four-axle chassis from a used milk truck. The trailer is 20 feet long, 7 feet wide, and weighs 6,000 pounds.

Bolted on the top are two 20-foot pieces of railroad track. Mounted on the tracks is a 7½-x 10-foot railroad flat car weighing 4,000 pounds. During the tractor pull, the front wheels of the trailer rest on a metal sled.

As a tractor begins to pull a bar is dropped, putting the flat car in gear. When the machine moves forward, the flat car moves closer to the front, thus, putting more weight on the dragging sled. When the tractor can pull the machine no further the distance is recorded, and the flat car is returned to the rear of the trailer. The machine is then returned to the starting area for the next pull.

To accomodate the larger weight classes concrete filled barrels are added on the top of the cart as extra weight. Each barrel weighs 1,100 pounds and as many as 12 can be added. The maximum total weight of the cart, including the barrels, is 23,200 pounds.

An application has been sent to the National Tractor Pulling Association for the approval and sanction of the "drag cart." *(By Mike Western, Reporter, and Dale Roller, Treasurer)*

Building Machinery from Scratch

AGRICULTURAL mechanics is Steve Pursley's thing. Steve is a member of the Scio FFA Chapter in Oregon, and since September last year he has been involved in occupational experience at Ward Commons Manufacturing Company. The company builds Wolverine Swamp buggies—high flotation rigs—which are used for spreading agricultural chemicals on soft ground.

Ward Commons Manufacturing is not a large machinery builder. It specializes in the swamp buggies and produces units one at a time from parts fabricated right in the large open shop. The three-wheel flotation vehicles come in five sizes and are sold all over the United States.

Steve's main job is to construct the dash and control console. He builds each console from scratch starting with sheet metal and angle iron. Although he uses a template to make sure each console is the same, the job is not automated. Steve uses his welding and mechanical skills considerably as he constructs each console. He works five hours each day and sometimes puts in overtime when he's asked to prepare an order to meet a shipping deadline.

For Steve the working day doesn't end when he leaves Ward Commons Manufacturing Company. He recently put the finishing touches on a 32-foot, 12-wheel hay trailer which he used this past summer in a hay hauling enterprise he organized with a partner.

Steve, front, shows a fellow member how to operate the control console.

Steve plans to go to Linn Benton Community College next year where he will major in welding technology and business administration. "This major will enable me to continue my interest in welding and perhaps work it into a business of some kind," says the energetic FFA member. *(By Dan Reuwee)*

How To Save Fuel

The economizing tips talked about here will also help you hold down expenses.

SINCE the energy problem will continue for a long time, fuel economy will become a priority consideration for growers in planning field operations. There are, of course, many ways to save fuel. In farming these range from how to operate your machinery to how you manage your crops.

Tune Up. A survey of farm tractors in Illinois shows that nearly three-fourths were capable of developing only 75 percent of their rated power. The prime reason was the neglect of basic maintenance.

Careful adjustment of the fuel-air ratio, correct timing, good plugs, and a clean cooling system are essential for tractors and other motorized machinery to operate at maximum efficiency. On the average the standard tune-up can decrease fuel consumption by as much as 15 percent.

Paint Your Fuel Tank. As much as 3 percent of the fuel stored above ground in dark colored, unshaded tanks can evaporate. But evaporation losses can be cut to less than 1 percent if the tank is painted white and capped with a pressure vent. Shading the tank can substitute for white painting if the state code requires gasoline tanks to be painted red.

Use the Right Tractor. U.S. farms average three tractors nowadays, and farmers can save fuel by using the right one for the right job. Tractors operating at rated engine speed provide better fuel efficiency at full loads than at light loads.

For example, a 45-hp tractor will put out 11 hp-hours of work for each gallon of gasoline when operated at a full load. Now if a 100-hp tractor were put on the same job requiring 45 hp, fuel efficiency would drop and only eight hours of work would be obtained from each gallon.

Plow Shallower. Except for tuber crops, plowing more than seven inches deep does little to improve crop yields. Yet power requirements and consequently fuel use increases markedly when going from 7-inch to 11-inch plowing.

Sharp plow shares will also cut down on fuel needs by improving penetration and reducing draft.

Reduce Tillage. Farmers can realize a double savings—less fuel and labor—if they choose some form of reduced tillage system for their crops. USDA engineers calculate they can cut their fuel needs in half and their labor requirements by 40 percent if they practice minimum tillage.

No-till systems are even more economical where soil conditions permit their use. Savings can amount to as much as 80 percent on fuel and 60 percent of labor with zero tillage.

Combine Chemical Operations. Tractors are easily rigged up to apply herbicide, insecticide, and liquid fertilizer in one field operation. Chemicals applied in combination where practical can save fuel and labor just as reduced tillage does.

Sharpen Knives. Dull knives can double the power required to operate the cutter bar. Knives and other shear bars need to be kept sharp for maximum efficiency. It is also important to maintain proper bar-to-knife clearance.

Chop Forage Coarsely. Farmers who regularly cut forage at a one-eighth inch setting can realize big power savings by doubling the length of cut to one-quarter inch. Such a change reduces PTO requirements per ton of forage by about one-third.

Break Fuel Wasting Habits. Things like working fields the long way cuts down on the number of turns and thus reduces the inefficient use of fuel.

Whenever equipment is likely to be inactive for a time, it pays to shut off the engine. Restarting a tractor will often require less as idling can use up to one-half gallon per hour.

To summarize, make sure everything from the grill of the tractor to the tail wheel on the plow is maintained properly so precious fuel is *not* wasted.

Little things like not filling the tractor fuel tank too full and shading the storage tank or painting it white can reduce the evaporation of fuel.

Staff Photo

savenergy

Electrical Safety Counts

Over the long-run this member's safety practices save time, money, and above all reduces accidents.

By Lee Elam

DAVID Holm, a member of the Turlock FFA in California, has become aware of the electrical environment around the farm. He has given it attention continually to cut down on the possibility of fire, injury of a family member or worker, and the burning out of expensive motors that are hard to replace.

David has taken it upon himself to see that electrical equipment in the dairy's farm shop is kept in the best of condition. He feels it should also be in good condition should an Occupational Safety and Health Act inspector visit the ranch.

What are some of the prime things he does in taking care of electrical equipment in the shop?

David checks the motors to see if there is excessive vibration and listens to them for excessive noises. If either is present the motor gets immediate attention. He tightens the bolts on the motor mounts at least twice a year to reduce motor damage through vibration. He also makes sure all belts or chains are adjusted correctly for maximum output from the motor and to eliminate breakdowns.

Switch boxes, plugs, lights, and breaker switches in the shop are cleaned by David at least twice a year. He also checks wire connections and insulation several times a year to be sure they will not short and start a fire.

The shop enthusiast has found the information on motor name plates often becomes illegible through use. Therefore, David maintains a record book of motor identification. The data is especially useful when replacement parts are needed.

David knows it is important to have full-power wiring to get full voltage to the electrical equipment. He has found that if equipment receives 10 percent less volts than normal the lights will give out 30 percent less light, heaters will give out 19 percent less heat, and motors will deliver 19 percent less power.

When David graduates from high school this year he will go into a partnership with his father on their Holstein dairy. One of David's future plans are to have a power company engineer come to the farm and check out each motor to see that the voltage and amp readings are correct. He will also test the running of the motors to find out if the load is too high or too low, a bearing is about to go out, or the brushes need replacing.

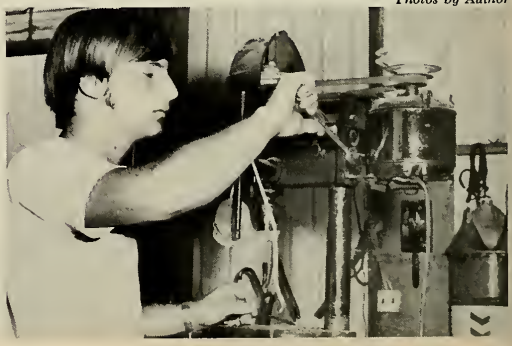
In light of rising energy costs David's safety practices will help him reduce both electrical costs and accidents.

David uses an air compressor as well as a whisk broom to dust off motors.

The electrical information from the motor used in the milking system is recorded and kept in the office file.

Periodically David tightens motor mounts on equipment in the farm shop to eliminate vibration power losses.

Photos by Author



For every kid who wants a Remington 22, there's a father who wants a Remington 22.

Fathers are a lot like kids. They appreciate a handsome, well-made, well-balanced, accurate rifle as much as anyone.

That's why it's easy to sell your dad on getting you a Remington.

Here's how you do it:

Take him to a store and show him a slick, pump action Remington Model 572 "Fieldmaster" rifle. Show him how smooth the action is. Tell him the 572's got an exclusive cartridge feeding system that prevents jamming and can easily be converted to a single shot. Just right for training...right?

Or, if you've set your sights on a fast, accurate automatic, show him Remington's Model 552 "Speedmaster" automatic. He's bound to go for its big-game styling and performance.

Once you've talked your dad into buying you that Remington 22, you've got one more little thing to do.

Talk him into getting his very own Remington 22. So he won't always be wanting to use yours.

You can learn more about the Remington 552 and 572 from our free 1974 catalog. Just send a card to: Remington Arms Company, Inc., Dept. 01, Bridgeport, Conn. 06602.

Remington® DUPONT

Great guns deserve great ammunition. We make both.

"Remington", "Fieldmaster" and "Speedmaster" are trademarks registered in the U.S. Patent Office * Prices shown are suggested minimum prices, subject to change without notice

Young No-Tillers Serve Farmers

(Continued from Page 20)

ed Mr. Kenny Barker, of Barker Brothers Implement Company, in nearby Shelbyville. He agreed to sell the chapter an eight-row Allis-Chalmers 300 series NO-TIL planter. The members assembled the planter themselves to gain additional experience.

The group determined that 700 acres of custom-planting would pay for the planter the first year. According to a short survey, the members found 500 acres were available, enough to risk the investment.

"The members had one problem, though—no tractor," says Advisor Shaffer. "Farmers, however, were unbelievably generous and confident in the FFA members. A tractor was almost always available and the one time they did run into trouble, Kenny Barker let us use an Allis-Chalmers tractor for two weeks."

Fees were set at $4.50 per acre without a tractor or $3.00 if the customer furnished the tractor.

Planting began in late April. During the school year the vo-ag students couldn't begin work until after classes. Later on, three shifts of FFA members planted all day and into the night, sometimes as late as 1 a.m.

About half of the chapter's 50 members had enough free time to run the equipment. Advisor Shaffer showed the members how to use it, then left them alone to plant, so they could gain some real first-hand experience.

As the planting season progressed, members found themselves planting corn, soybeans, and sorghum in 38, 30, and 20-inch rows under a variety of field conditions, ranging from alfalfa sod to double-cropped wheat stubble.

By season's end, the chapter custom planted 1,218 acres. About 600 acres were double-cropped soybeans, the remainder spring-planted crops. Most were planted in fields without any tillage, however, a few fields were disced.

"Although some fields didn't turn out perfectly, the project was a success," says the vo-ag instructor. "Improper weed control was a problem in some fields, but it taught members the importance of good herbicide application."

The venture wasn't without its problems. For example, the row marker slid off the planter, hit a signpost, and tore off two planter boxes one night at 11:45 p.m. Also, the first field was planted too deep.

Despite these things, most farmers who witnessed the minimum tillage seemed to gain faith in the concept.

"Even the farmer with the field we planted too deep hired the group later to plant beans in wheat stubble," states Advisor Shaffer. "Other farmers called the members back for more planting after their first field showed good results. And four farmers who have never tried minimum tillage have already said they want to hire the group this year."

In some instances, FFA members have changed their own families' opinions about the practicality of minimum tillage. A third-year FFA member for example, convinced his doubtful dad to try minimum tillage corn in 18 acres of alfalfa stubble. It worked well, and he says he'll try some more next year.

This year, the NO-TIL planter will be paid in full and owned by the chapter. Profits from the venture will allow further investment in equipment next year. The FFA members would like to have their own tractor, but might get a sprayer instead.

"We are confident this year's results will be more uniform," says Advisor Shaffer. "Also, minimum tillage will look even better, especially if we encounter a dry season when moisture conservation becomes important."

(*Reprinted from* Landhandler)

Under the guidance of Advisor Shaffer, right, the members learned the importance of adjusting the planter before taking it out to a farmer's field.

Jim picked up the idea of this steel work table while visiting a dealer.

The floor crane added efficiency and the parts bins provided neat storage.

Farm Shop Is "Hub" of Operation

Remodeling the farm shop has improved the efficiency of their farm says this FFA'er.

By G. L. Schleicher

Photos by Author

Jim and a friend sell portable calf chutes as fast as they can make them.

WHAT kind of a guy would spend his spare time after school and on weekends working on his FFA projects while his friends were out hunting and skiing?

Probably someone like Jim Anderson, of Longmont, Colorado, who last year was named national winner of the FFA Agricultural Mechanics Proficiency award. And if you asked Jim why he became so involved in his shop projects, he'd tell you, "because they were challenging. I think challenge is one of the main ideas behind the FFA program. If you can find a challenge in a project, then it's easy to go ahead and see it through from the idea to finished product."

Jim comes from a farming family that operates a 400-acre irrigated farm and 1,500-head feedlot only minutes from the foothills of the Colorado Rockies. When he first joined the St. Vrain Valley FFA Chapter at the Longmont High School, his interests naturally ran to soil science and animal production.

"But it wasn't long before I became interested in the ag mechanics courses," he says. "When my vo-ag instructor and I would sit down to develop an idea for a class project, for example, I'd try to figure out what we needed most at home. Then I'd visit with implement dealers to see how things were put together, and try to combine what I'd seen with what I wanted to make."

Most of Jim's projects found a ready use on the family farm when he brought them home. But none of them were more useful than his biggest project —the enlargement and remodeling of the farm shop.

With his father's approval, Jim began developing a plan to expand the shop during his junior year in school. Enlisting a limited amount of help from his father, the hired men, and an electrician, Jim ultimately enlarged the facility from 1,200 to 1,800 square feet of usable space.

During the following months, the Colorado FFA'er redesigned the interior of the shop to make it as practical as possible. Entire walls of storage shelves and bins were constructed to hold the nuts and bolts, spare parts, tools, and containers necessary to a farming operation. Jim improved the lighting system, added heaters for winter comfort, partitioned off work areas, and designed tool racks, tables and benches.

He made certain that safety precautions were a part of his overall plan, using the tips he'd learned in his vo-ag classes. He provided for grease rags, flammable liquids, and other dangerous substances to be stored safely away from work areas. Fire extinguishers were placed in prominent positions, as were hard hats and safety glasses.

In completing the shop project, Jim estimated he'd spent well over 850 hours on it. Both he and his father agree it's a valuable asset to the farming operation, and the service of their equipment.

When he wasn't working on the shop, Jim kept busy by constructing a large steel floor crane, steel sawhorses, a welding table and cart, and a hydraulic press for use in the pens and alleys.

Jim's other projects include rebuilding a four-wheel drive vehicle and regular repair and maintenance of the farm machinery. Jim and a friend are currently manufacturing portable steel calf chutes of their own design. Although they're selling most of what they build, Jim explains, "We're really not making any profits, other than wages for our time, but we've sure learned a lot about going into business for ourselves."

The mechanic award recipient is presently a Sophomore at Colorado State University, where he's studying animal science. He recently served on the Colorado FFA Executive Committee, and has traveled throughout the state fulfilling speaking engagements and promoting FFA. When he completes his education, he plans to join his family on the farm.

"The national FFA award was quite an honor, probably the highest goal I've ever set and reached," Jim comments. "It's something that I'll always try to live up to."

Vo-ag students, under the direction of Advisor Glenn Paulson, plant wild roses along a fence they built. The grain was planted by FFA members, too.

All Members Get to Farm

And the "pride of ownership" grows with the membership.

HOW can you learn how to be a farmer if you don't have a farm? For lots of FFA members, enterprises are easy because their parents have land and space available for use. But what of the member who wants to grow a crop or raise animals but doesn't have the space?

In the Franklin Pierce School District, located just south of Tacoma, Washington, that's no problem. The school district owns—and the FFA chapter operates—a 15-acre farm complete with a house, outbuildings, orchard, pasture, garden space, and a growing inventory of stock.

The farm was originally purchased as a potential site for an elementary school, but declining enrollment has made the land a surplus item. So, though not worked for several years, the district's Vocational Agriculture Instructors Glenn Paulson and Gene Teesdale along with Lyle Catt, director of environmental education, decided to put the land to good use again.

During the first few months of management, especially in the fall and the rainy months of winter, the members installed new barbed wire fencing around the entire farm, put up several aluminum gates, constructed a wood storage shed, applied new aluminum roofing on several older outbuildings, cleaned and refurbished the inside of the large two-story barn, and built wooden stock fences.

The lumber for the fencing projects was the result of another plot of land the district leases from the state as a potential building site. The 35-acre site contains a large stand of Douglas Fir which has been thinned—the trees being taken to a nearby sawmill and turned into lumber—thanks to the volunteer labor of the sawmill owner. This has helped keep expenses down until the farm begins to provide an income from its crops and animals.

In its second year of operation, the farm boasts several large pastures, a variety of animals, a 10,000-square-foot garden used by elementary students and a few senior citizens, an ancient orchard and young plantings of a new orchard, a developing 10-foot wide natural habitat area surrounding the entire farm, plus a large picnic, recreation area near the farmhouse.

Last spring FFA members held their parent and son-daughter banquet at the farm, complete with chicken barbecue, a tractor driving contest for parents, and volleyball games. The entire affair, with some 75 people attending, was held on the spacious farmhouse lawn.

FFA members make ample use of the farm, both for class instruction and for individual projects. The group established several pasture grass test plots last spring with an eye toward eventual improving of the main pastures. And with the cooperation of the Washington Game and Wildlife Department, members are caring for hundreds of game birds, some of which will be rotated in display pens at the district's elementary schools. Other birds will be released into the farm's natural habitat.

FFA members make use of the farm for production enterprises, too. Sufficient space in land and buildings is available for the raising of cattle, pigs, and fowl. Some members also grow crops of corn and wheat.

Farm equipment has been purchased with special federal grant funds and is stored at the farm so that all members can learn to operate the tillers and large tractor. Last summer one of the girls worked at the farm as a caretaker under a special state funded work-study grant. Her responsibilities included feeding and care of the animals, irrigation and cultivation of the elementary school garden plots, general farm upkeep, lawnmowing, fruit thinning, and garden harvesting.

The organizers of the farm foresee the day when the upper story of the barn becomes a practical museum complete with historical equipment and farm practices. They envision, too, a wide variety of animals inhabiting the farm, most of which they expect to be donated by interested parents, businessmen, and the state wildlife department. They see it as an outdoor classroom for every child in the school district, a local visitor's attraction, and a compact recreational site for the FFA chapter and other school organizations.

The potential of the 15-acre farm is almost beyond the dreams of those men. Yet in these first two years, the opportunities the farm has presented to the agriculture classes, FFA members, and hundreds of elementary students has more than returned to the district the thousands of dollars it paid for the site.

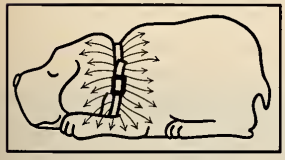
The most fortunate FFA member is generally the one whose family lives on its own farm. In the Franklin Pierce School District every FFA member has his "own" farm.

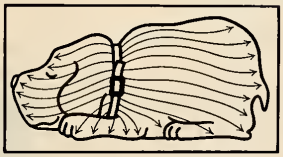
Kills fleas for 120 days. Not just 90.

©1974 Miller-Morton Company, a subsidiary of A. H. Robins Company

Sergeant's,® the pet care people, invented the original 3-month flea collar back in 1965. And now they've come up with a whole new breed.

The new Sentry® IV Collar with Sengard. The first 4-month flea collar.





Actually kills fleas for 120 days, not just 90.

Sergeant's new Sentry IV is a whole new breed because it's the only flea collar with Sengard, an exclusive new time-release flea-killer. This unique time-release action means Sengard is dispensed from the collar so carefully that instead of running out on your pet after only 90 days, the new Sentry IV Collar goes right on killing fleas for another 30 days.

Kills fleas for 120 days, not just 90.

So get the new Sergeant's Sentry IV Collar for your dog or cat. It's the only one with Sengard. It's the first 4-month flea collar.

NEW IMPROVED
contains SENGARD
A low volatility and slow release flea killer
Sergeant's
SENTRY IV COLLAR
KILLS FLEAS ON YOUR DOG FOR UP TO 4 MONTHS
CAUTION
The only collar with Sengard.™

It's a whole new breed.

Oral Reasons

These tips can help you explain *why* you placed the dairy class the way you did.

IT has been said that the best ideas in the world are of little value unless they can be communicated effectively. Thus, it is important in addressing a person or audience to enunciate clearly, express ideas effectively, and create a favorable impression.

In dairy cattle judging such an education is available through oral reasons. By using accurate statements and a logical sequence of ideas in oral reasons, communication is greatly improved. Along with this, you are taught to think, concentrate, recall, and decide.

Learning the "Ideal"

To make accurate statements in oral reasons some basic steps must be followed.

First, you must be familiar with all body parts of the dairy cow. This includes everything from the nostrils to the sole of the heel. Quite often the official judge will ask you questions which can only be answered by knowing the parts of the dairy cow. Various dairy text books and breed association publications include diagrams of the dairy cow from which you can learn the parts.

Your second step is to become familiar with the dairy cow scorecard. This is divided into four general categories, which includes general appearance, dairy character, body capacity, and mammary system. Each division is assigned a certain number of points and organized in an efficient and effective manner.

For instance, the dairy character category includes a long lean neck, sharp withers, refined thighs, and other qualities which indicate angularity, general openness throughout, and freedom from coarseness. General appearance would be indicated by a strong, straight top, a long, wide, level rump, cleanly molded hocks, and other traits which typify individuality, femininity, stretch, scale, style, and balance from end to end. Thus, scorecard familiarity enhances organization by indicating which phenotypic (visual) qualities are included under each category.

Your next step to success is learning the "ideal cow," which is that cow established by each of the breed associations as their standard of excellence. After learning what an "ideal cow" is you evaluate each cow's defects by comparing her to the "ideal."

The cow with the least faults, of course, is rated first and the one with the most is last. However, some defects, such as a broken rear-udder attachment, are more serious compared to lesser defects similar to a shallow flat foot. Thus, you must know to what degree each defect is criticized.

Comparing a Class

Now you are ready to observe your class of four animals and compare the obvious points of body conformation. This may be accomplished by standing 20 to 30 feet away from the class being judged. Too often people unconsciously creep up on the class and are too close to evaluate such features as height at withers, length of body, depth of barrel, and strength of udder. Understandably, these are the major points which determine placings and thus, must be properly evaluated.

DAIRY COW UNIFIED SCORE CARD

Copyrighted by The Purebred Dairy Cattle Association, 1943 Revised, and Copyrighted 1957 and 1971
Approved — The American Dairy Science Association, 1957

Breed characteristics should be considered in the application of this score card		Perfect Score
Order of observation		
1. GENERAL APPEARANCE		**30**
(Attractive individuality with, femininity, vigor, stretch, scale, harmonious blending of all parts, and impressive style and carriage. All parts of a cow should be considered in evaluating a cow's general appearance)		
BREED CHARACTERISTICS — (see reverse side) **HEAD** — clean cut, proportionate to body; broad muzzle with large, open nostrils; strong jaws; large, bright eyes; forehead, broad and moderately dished; bridge of nose straight; ears medium size and alertly carried	10	
SHOULDER BLADES — set smoothly and tightly against the body **BACK** — straight and strong; loin, broad and nearly level **RUMP** — long, wide and nearly level from **HOOK BONES** to **PIN BONES**; clean cut and free from patchiness; **THURLS**, high and wide apart; **TAIL HEAD**, set level with backline and free from coarseness; **TAIL**, slender	10	
LEGS AND FEET — bone flat and strong, pasterns short and strong, hocks cleanly moulded. **FEET**, short, compact and well rounded with deep heel and level sole. **FORE LEGS**, medium in length, straight, wide apart, and squarely placed. **HIND LEGS**, nearly perpendicular from hock to pastern, from the side view, and straight from the rear view	10	
2. DAIRY CHARACTER		**20**
(Evidence of milking ability, angularity, and general openness, without weakness; freedom from coarseness, giving due regard to period of lactation)		
NECK — long, lean, and blending smoothly into shoulders; clean cut throat, dewlap, and brisket **WITHERS**, sharp. **RIBS**, wide apart, rib bones wide, flat, and long. **FLANKS**, deep and refined. **THIGHS**, incurving to flat, and wide apart from the rear view, providing ample room for the udder and its rear attachment. **SKIN**, loose, and pliable	20	
3. BODY CAPACITY		**20**
(Relatively large in proportion to size of animal, providing ample capacity, strength, and vigor)		
BARREL — strongly supported, long and deep; ribs highly and widely sprung; depth and width of barrel tending to increase toward rear	10	
HEART GIRTH — large and deep, with well sprung fore ribs blending into the shoulders; full crops; full at elbows; wide chest floor	10	
4. MAMMARY SYSTEM		**30**
(A strongly attached, well balanced, capacious udder of fine texture indicating heavy production and a long period of usefulness)		
UDDER — symmetrical, moderately long, wide and deep, strongly attached, showing moderate cleavage between halves, no quartering on sides; soft, pliable, and well collapsed after milking; quarters evenly balanced	10	
FORE UDDER — moderate length, uniform width from front to rear and strongly attached **REAR UDDER** — high, wide, slightly rounded, fairly uniform width from top to floor, and strongly attached	6 7	
TEATS — uniform size, of medium length and diameter, cylindrical, squarely placed under each quarter, plumb, and well spaced from side and rear views	5	
MAMMARY VEINS — large, long, tortuous, branching "Because of the natural undeveloped mammary system in heifer calves and yearlings, less emphasis is placed on mammary system and more on general appearance, dairy character, and body capacity. A slight to serious discrimination applies to overdeveloped, fatty udders in heifer calves and yearlings."	2	
Subscores are not used in breed type classification. **TOTAL**		**100**

The value of various cow traits are listed in the scorecard at the left.

Can Be Fun!

By Richard Denier

After deciding which cow to place first, second, third, or fourth, you compare the first and second place cow, second and third, and so on. Your comparison should include such terms as stronger, higher, wider, deeper, leveler, and smoother, rather than terms such as better, nicer, or prettier.

It is at this time that the majority of reasons should be recorded. This can be conveniently done on a 3 x 5 index card by recording the pair observed, followed by a category such as body capacity which would include notes on depth of heart, length, width and depth of rib, strength of chest, and depth and width of barrel.

After recording your notes, you should turn and be able to picture the class. By turning and picturing the class, you can fix its image in your mind, and if the official judge should ask you which was the blackest, lightest, smallest, or largest cow in the class, without hesitation your mental picture will provide the answer.

Plan Your Presentation

While visualizing the class, you can also organize your thoughts for giving oral reasons. You can decide how you will proceed from one comparison to another and what terminology you will use. For example, you may wish to compare dairy character by including the neck, withers, rump, and thighs, or just the neck and withers. Whether you will first discuss general appearance or body capacity on a particular pair can be decided at this time. Whatever you decide, good organization lends itself to efficient, concise reasons which will eliminate hesitation and stuttering while adding confidence to your presentation.

However, you're not through yet. Though one cow places above another, understandably, the other cow may have superior traits. This superiority must be recognized. This is done by briefly granting the obvious advantages one cow has over another following the comparison made between the two cows.

For instance you might state, "However, I do grant one an advantage over two in size and scale, and strength of udder," or say, "I must concede that one excels two in..." However you do it, this indicates that you analyzed the class properly and thoroughly.

A word of caution, however: effective grants, organized thoughts, and the other steps discussed on oral reasons presentations, are not instant realities. Practice, desire, and more practice are prime requisites to effective oral reasons.

Winners in the National Dairy Cattle contest know how to give oral reasons.

The author, Richard Denier, is a former California FFA Association officer and an American Farmer. His participation in FFA dairy cattle judging contests proved most beneficial to him in last year's National Intercollegiate Dairy Cattle Judging Contest. As a member of Cal Poly's national winning team he tied for high individual honors in the contest.

Five lameness symptoms. And how to treat them.

1 Stiff-gaited walk, or refusal to stand on all four legs.
2 Swelling and heat on front of foreleg from knee to ankle.
3 Soft, painless swelling around the fetlock.
4 Swollen hocks or pasterns, or sensitiveness to touch.
5 Swollen tendons.

So much for the symptoms. The treatment is Absorbine Veterinary Liniment. Its healing ingredients help to bring down swelling and restore tone to your horse's muscles.

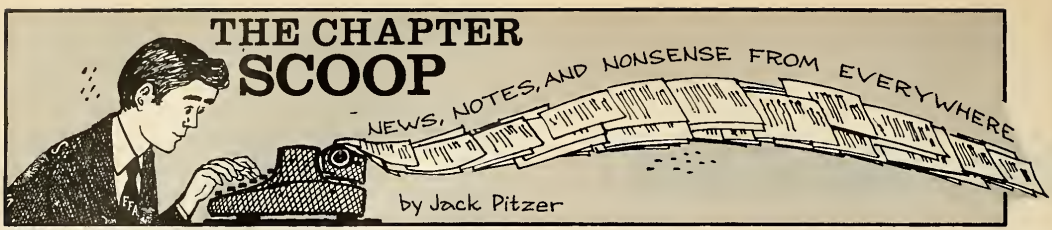
Better yet, keep your horse in top condition with a daily body wash in Absorbine. It helps stop lameness symptoms from developing in the first place.

Absorbine. No wonder it's the anti-lameness conditioner preferred by top trainers.

W. F. Young, Inc., Springfield, Mass. 01101

Available in the U.S. and Canada.

Take another tip from top trainers. Use Absorbine Hooflex, the Veterinary Hoof Conditioner



Chariho, Rhode Island, FFA plans to try wildlife exhibits as part of their annual Children's Barnyard. It introduces other aspects of agriculture.

N-N-N

Susan Montgomery, reporter of *Sabetha,* Kansas, sends news of her chapter taking first in all nine district contests entered.

N-N-N

Good grades! Eight *Olentangy,* Ohio, members have made school honor roll with 3.5 or higher.

N-N-N

Money-maker idea for *Wendell,* Idaho. Collect old machinery, cut it up and sell as scrap iron.

N-N-N

The junior chapter of *Housatonic Valley,* Connecticut, went on a farm safety hazard hunt.

N-N-N

A parent-son luau was held by the Kaneohe Chapter, *Honolulu,* Hawaii.

N-N-N

A recreation area on campus was built by *Pembroke,* North Carolina, FFA for team play. Volleyball, softball, and horseshoes.

N-N-N

Every chapter is supposed to have one of the Chapter Action Guides. Where's yours?

N-N-N

Officers of *Kern Valley,* California, FFA buried the treasure too deep for the Greenhands to retrieve.

N-N-N

Muskogee, Oklahoma, members know about hard work. After school one day they helped a former member dehorn 165 cattle. And the next night vaccinated 95 cattle.

N-N-N

Mark Bartle, reporter at *Enderlin,* North Dakota, says National Officer **Keith Mohler** was a big success as banquet speaker. Keith is 6 feet, 5 inches—no wonder!

N-N-N

Elida, New Mexico, won sweepstakes at state judging meet with 11 members.

Spud Lewis sold his champion steer for $2.00 a pound to **Miss Kitten Haver.** She is having a barbecue for the *Garland,* Texas, members plus furnishing beef for the banquet.

N-N-N

Sparta, Tennessee, FFA is proud to have helped with the Lions Club Palm Sunday paper drive.

N-N-N

Mississippi state president was guest speaker for *Weir* Chapter banquet.

N-N-N

They had an arm wrestling tourney for recreation after a *Scottsboro,* Alabama, meeting.

N-N-N

Denmark, Wisconsin, Chapter worked with a gas station filling milk cartons with a sand-salt mixture. Gave them free to customers.

N-N-N

It's sunny weather again. Good time to take pictures of FFA activities. Then share 'em.

N-N-N

A popular event sponsored by *Lebanon,* Kansas, FFA was a community-wide old fashioned ice cream social.

N-N-N

Highland, Illinois, members sold doughnuts to other students to raise money for March of Dimes.

N-N-N

North Hunterdon, Regional Chapter in New Jersey hosted an annual Family and Friend Night. Showed a Walt Disney movie, "Rascal."

N-N-N

Barbecued venison and beans, prepared by Advisor Mahan, were served at *Emporia,* Virginia, banquet.

N-N-N

Herbert Andrick won *Wirt,* West Virginia, Creed Contest. Second was **Rick Roberts.** Third was **Marty Hennen.**

N-N-N

Horses provided way to school instead of cars at *Wheatland,* Wyoming.

N-N-N

The local Alumni affiliate of *Walkersville,* Maryland, FFA donated a registered Hamp gilt to start a pig chain.

John Bowne Chapter in *New York City,* named winner of their pie eating contest "Honorary Chapter Glutton."

N-N-N

Hoven, South Dakota, Chapter initiated the newly formed *Cheyenne Eagle Butte* Chapter officers and members.

N-N-N

The Office Education Association prepared a display saluting *North Montgomery,* Indiana, FFA. Nice cooperation among vocational students.

N-N-N

For faithful participation in basketball game against Harlem Comedy Kings the *Akron,* Colorado, "Fearless Faculty" members were given special awards by FFA.

N-N-N

North High in *Omaha,* Nebraska, has camping trip to South Dakota planned.

N-N-N

Francis Howell, Missouri, observed 25th anniversary. Had 400 attend to renew acquaintances and dance.

N-N-N

Reporter **Sue Mark** of *Thurston,* Oregon, wrote, "A good grain crop netted $1,015 for our chapter."

N-N-N

Nolan Husser's sister **Cathy** moaned and groaned, nagged and coached her brother as he captured six firsts in local dairy cattle shows. And $100. He's a *Franklinton,* Louisiana, FFA'er.

N-N-N

A summer activity for *Murfreesboro,* Arkansas, included melon eating contest, homemade ice cream, water balloon fights, and more. All for Greenhands.

N-N-N

The *Alexandria,* Minnesota, roller skating party was highlighted by ungraceful fall by Advisor VanZomeren.

N-N-N

First place went to **Marty Johnson** in *Washington,* Iowa, watermelon seed spitting contest at melon feed. He sent one 23 feet, 3½ inches.

N-N-N

Let us hear about fair and show activities—but not just the grand champs. Interesting things your chapter did.

Farm on the Lawn

TWENTY-seven members from FFA chapters in northern Virginia assisted in organizing a "Farm on the Lawn" for elementary and pre-school children. The one-day event was held at the National FFA Center and featured live farm animals, crop exhibits, and sheep shearing demonstrations.

More than 900 children from the Mount Vernon area elementary schools visited the "Farm on the Lawn" exhibits. They saw and touched a dairy cow and calf, sheep and lambs, a steer, pigs, chickens, and crops.

Words by children included such expressions as "The sheep and goats are furry," "The pigs stink," and "I like the noise the chickens make."

Members of the Nokesville FFA set up the animal pens and helped members from the Clarke County FFA at Berryville and the Loudoun Valley Chapter at Purcellville explain to the children how the animals and crops supply food for our tables. The three chapters also provided the animals. The James Wood FFA of Winchester brought the harvest samples and flats of growing corn, wheat, soybeans, and cotton.

One third grade teacher, commenting on the learning experience, said, "It's hard to get ideas about animals, other than horses, across to the children. Being able to touch them as they are here is more effective."

A pre-kindergarten teacher explained that her class drew pictures of animals, crops, and food products prior to coming to the "Farm on the Lawn." She said, "The great experience of seeing the animals reinforces the child's ideas about the animals." The next day her class talked about the animals they liked best.

According to National FFA Executive Secretary Paul Gray, "Farm on the Lawn" is an experiment to test several ideas for a nationwide "Food for America" project involving FFA members. "We hope the efforts will help elementary students realize the importance of farmers and agribusiness in the production and distribution of the food we eat," he explains.

"Farm on the Lawn" was sponsored by the National FFA Center Alumni Chapter in cooperation with the four Virginia FFA chapters. A two-minute news special was carried about the event on a Washington, D.C. television station.

Over 900 school children came to the National Center to see the animals.

Lambs were a main attraction of the children at the "Farm on the Lawn."

Mini-Meet on Leadership

OVER 480 FFA members and advisors from three states attended a mini-conference conducted by the National FFA Officers. The participants came from the tri-state area of Illinois, Missouri, and Iowa to attend the event held at Moorman Manufacturing Company's Sales Training Center in Quincy, Illinois.

Following an individual meeting with each of the National FFA Officers in a reception line, scenes of the National FFA Convention were shown on film.

Next the FFA members divided into small groups headed by a state or national officer to discuss the theme of the mini-conference, "leadership." The meeting concluded with lunch for all in the company's cafeteria. Prior to the mini-conference the National FFA Officers enjoyed visiting with the Moorman's Advisory Committee, Junior Board of Directors, and Company President Bob Hulsen.

Members from the three states swapped hundreds of ideas on leadership.

The Air Force ROTC offers full tuition scholarships, flying lessons and $100 a month allowance.

And that means whoever would have paid for your college education doesn't have to. It also means that some people who weren't able to go to college can now have that opportunity at any of more than 180 colleges with Air Force ROTC programs.

An Air Force ROTC scholarship covers your tuition, lab and incidental fees, plus textbook reimbursement. You also receive a $100 monthly allowance to use as you wish. And to top it all, qualified Air Force ROTC scholarship students can take Air Force sponsored flying lessons.

All that and more...because your Air Force ROTC education can lead to many job opportunities. Many become pilots, navigators, or missiliers. For the location of the Air Force ROTC unit nearest you, call 800-447-4700, toll free, (in Illinois call 800-322-4400) or send in the coupon.

Air Force ROTC 2-NF-64
Box A
Randolph AFB, Texas 78148
Please send me more information. I understand there is no obligation.

Name_____ Sex (M)_____ (F)_____
(Please Print)

Address_____

City_____

State_____ Zip_____ Phone_____

Soc. Sec. #_____ Date of Birth_____

College Planning to Attend: (1)_____

(2)_____ (3)_____

Put it all together in Air Force ROTC.

College pays, but college costs.

And these are the schools where you'll find Air Force ROTC.

ALABAMA
Alabama State University, Montgomery 36101
Auburn University, Auburn 36830
University of Alabama, University 35486
Livingston University, Livingston 35470
Samford University, Birmingham 35209
Tuskegee Institute, Tuskegee 36088
Troy State University, Troy 36081

ARIZONA
University of Arizona, Tucson 85721
Arizona State University, Tempe 85281
Northern Arizona University, Flagstaff 86001

ARKANSAS
University of Arkansas at Fayetteville, Fayetteville 72701
University of Arkansas at Monticello, Monticello 71655

CALIFORNIA
California State University, Fresno 93710
California State University, San Jose 95114
California Institute of Technology, Pasadena 91109
California State University, San Diego 92115
California State University, San Francisco 94132
Loyola Marymount University, Los Angeles 90045
University of California, Los Angeles, Los Angeles 90024
University of Southern California, Los Angeles 90007
University of California, Berkeley 94720

COLORADO
Colorado State University, Fort Collins 80521
University of Northern Colorado, Greeley 80639
University of Colorado, Boulder 80302

CONNECTICUT
University of Connecticut, Storrs 06268

DISTRICT OF COLUMBIA
Georgetown University, Washington 20007
Howard University, Washington 20001
The Catholic University of America, Washington 20017

FLORIDA
Embry Riddle Aeronautical University, Daytona Beach 32015
Florida Technological University, Orlando 32816
The Florida State University, Tallahassee 32306
University of Florida, Gainesville 32601
University of Miami, P.O. Box 8164, Coral Gables 33124

GEORGIA
University of Georgia, Athens 30601
Georgia Institute of Technology, Atlanta 30332
Valdosta State College, Valdosta 31601

HAWAII
University of Hawaii, Honolulu 96822

IDAHO
University of Idaho, Moscow 83843

ILLINOIS
Bradley University, Peoria 61606
Illinois Institute of Technology, Chicago 60616
University of Illinois, Urbana 61801
Southern Illinois University, Carbondale 62901
Southern Illinois University at Edwardsville, Edwardsville 62025
Parks College, Cahokia 62206

INDIANA
Butler University, Indianapolis 46208
Indiana University, Bloomington 47401
Purdue University, Lafayette 47906
University of Notre Dame, Notre Dame 46556
University of Evansville, Evansville 47701

IOWA
Coe College, Cedar Rapids 52402
Iowa State University, Ames 50010
University of Iowa, Iowa City 52242
Drake University, Des Moines 50311

KANSAS
Kansas State University, Manhattan 66506
Wichita State University, Wichita 67208
University of Kansas, Lawrence 66044
Washburn University, Topeka 66621

KENTUCKY
University of Kentucky, Lexington 40506
University of Louisville, Louisville 40208

LOUISIANA
Grambling College, Grambling 71245
Louisiana Tech University, Ruston 71270
Louisiana State University & A&M College, Baton Rouge 70803
Nicholls State University, Thibodaux 70301
University of Southwestern Louisiana, Lafayette 70501
Tulane University, New Orleans 70118

MAINE
Colby College, Waterville 04901

MARYLAND
University of Maryland, College Park 20742
University of Maryland, Eastern Shore 21853

MASSACHUSETTS
College of the Holy Cross, Worcester 01610
Lowell Technological Institute, Lowell 01854
Massachusetts Institute of Technology, Cambridge 02139
University of Massachusetts, Amherst 01002

MICHIGAN
Michigan State University, East Lansing 48823
University of Detroit, Detroit 48221
The University of Michigan, Ann Arbor 48104
Michigan Technological University, Houghton 49931

MINNESOTA
St. Olaf College, Northfield 55057
College of St. Thomas, St. Paul 55101
University of Minnesota, Minneapolis 55455
University of Minnesota at Duluth, Duluth 55812

MISSISSIPPI
Mississippi State University, State College 39762
University of Mississippi, University 38677
Mississippi Valley State College, Itta Bena 38941
University of Southern Mississippi, Hattiesburg 39401

MISSOURI
Saint Louis University, St. Louis 63108
Southeast Missouri State University, Cape Girardeau 63701
University of Missouri, Columbia 65201
University of Missouri at Rolla, Rolla 65401

MONTANA
Montana State University, Bozeman 59715
University of Montana, Missoula 59801

NEBRASKA
University of Nebraska, Lincoln 68508
University of Nebraska at Omaha, Omaha 68101

NEW HAMPSHIRE
University of New Hampshire, Durham 03824

NEW JERSEY
Rutgers, The State University, New Brunswick 08903
Newark College of Engineering, Newark 07102
Stevens Institute of Technology, Hoboken 07030

NEW MEXICO
New Mexico State University, Las Cruces 88001
University of New Mexico, Albuquerque 87106

NEW YORK
Cornell University, Ithaca 14850
Fordham University, Bronx 10458
Syracuse University, Syracuse 13210
Rensselaer Polytechnic Institute, Troy 12181
Manhattan College, Bronx 10471

NORTH CAROLINA
Duke University, Durham 27706
Fayetteville State University, Fayetteville 28301
University of North Carolina, Chapel Hill 27514
North Carolina State University at Raleigh, Raleigh 27607
East Carolina University, Greenville 27834
North Carolina A&T State University, Greensboro 27411

NORTH DAKOTA
North Dakota State University of A&AS, Fargo 58102
University of North Dakota, Grand Forks 58201

OHIO
Bowling Green State University, Bowling Green 43402
Kent State University, Kent 44240
Miami University, Oxford 45056
The Ohio State University, Columbus 43210
Capital University, Columbus 43209
Ohio University, Athens 45701
Ohio Wesleyan University, Delaware 43015
Otterbein College, Westerville 43081
The University of Akron, Akron 44304
University of Cincinnati, Cincinnati 45221

OKLAHOMA
Oklahoma State University, Stillwater 74074
The University of Oklahoma, Norman 73069
University of Tulsa, Tulsa 74104

OREGON
Oregon State University, Corvallis 97331
University of Oregon, Eugene 97403
University of Portland, Portland 97203
Willamette University, Salem 97301

PENNSYLVANIA
St. Joseph's College, Philadelphia 19131
Duquesne University, Pittsburgh 15219
Lehigh University, Bethlehem 18015
The Pennsylvania State University, University Park 16802
University of Pittsburgh, Pittsburgh 15213
Allegheny College, Meadville 16335
Grove City College, Grove City 16127
Wilkes College, Wilkes-Barre 18703
Gettysburg College, Gettysburg 17325

PUERTO RICO
College of Agriculture & Mechanical Arts (UPR), Mayaguez 00708
University of Puerto Rico, Rio Piedras 00931

SOUTH CAROLINA
Baptist College of Charleston, Charleston 29411
The Citadel, Charleston 29409
Clemson University, Clemson 29631
University of South Carolina, Columbia 29208
Newberry College, Newberry 29108

SOUTH DAKOTA
South Dakota State University, Brookings 57006

TENNESSEE
Memphis State University, Memphis 38111
Tennessee State University, Nashville 37203
University of Tennessee, Knoxville 37916
University of the South, Swanee 37375

TEXAS
Lamar University, Beaumont 77710
Pan American University, Edinburg 78539
Texas A & M University, College Station 77840
Baylor University, Waco 76703
Southern Methodist University, Dallas 75222
Texas Tech University, Lubbock 79409
The University of Texas, Austin 78712
East Texas State University, Commerce 75428
North Texas State University, Denton 76203
Southwest Texas State University, San Marcos 78666
Texas Christian University, Fort Worth 76129
Angelo State University, San Angelo 76901
Sul Ross State University, Alpine 79830

UTAH
Brigham Young University, Provo 84601
Utah State University, Logan 84321
Southern Utah State College, Cedar City 84720
University of Utah, Salt Lake City 84112

VERMONT
St. Michael's College, Winooski 05404
Norwich University, Northfield 05663

VIRGINIA
Virginia Polytechnic Institute, Blacksburg 24060
Virginia Military Institute, Lexington 24450
University of Virginia, Charlottesville 22903

WASHINGTON
University of Puget Sound, Tacoma 98416
Washington State University, College Station, Box 2220, Pullman 99163
University of Washington, Seattle 98195
Central Washington State College, Ellensburg 98926

WEST VIRGINIA
Davis & Elkins College, Elkins 26241
West Virginia University, Morgantown 26506

WISCONSIN
University of Wisconsin, Madison 53706
University of Wisconsin at Superior, Superior 54880

WYOMING
University of Wyoming, Box 3005, University Station, Laramie 82070

What Is An FFA Member?

THE day he attends his first FFA meeting, a new member is not quite sure what he's gotten himself into. What is the FFA? How does it operate? What is it trying to accomplish? These questions run through his mind.

He may remain unsure for awhile but if he attends his first state FFA convention then the chance is his to see the FFA in action.

He sees the state FFA president, a young man only a few years older than he, preside over the convention with all the polish and confidence of a United States senator. He watches the convention—the speeches, the award winners. He experiences the joy of a newly elected president, and the tears of a retiring president.

He forms opinions and impressions. He sits back in his auditorium seat and daydreams—he sees himself standing on the stage, receiving an award, giving a speech in the state contest.

He dreams of the cheering audience, their applause directed to him—their newly elected state president—standing proudly before the cheering delegates, with joy in his heart, a lump in his throat, and a tear in his eye.

Suddenly, the rap of a gavel, his trance is broken, the daydream is over. But the rap of the gavel did not destroy his future dreams. It only brought him back to earth. Back to the realization that he has something to work for, a goal to achieve.

He's a dreamer, but then, most ambitious people are dreamers, and he is no exception. The convention is over. It's time to go home. On the way, he talks with his FFA advisor. He tells of his impressions; that he never realized the FFA was such an organization. The advisor inwardly smiles—he knows he has an FFA member.

An FFA member is a young man who loves to run his hands through the soil, to see the sun set on a golden field of wheat, to smell the aroma of freshly cut alfalfa, to watch a newborn calf take its first step. He realizes God has given him those gifts to care for—and he's going to do his best not to let God down.

An FFA member dreams of the future. He wants to contribute something worthwhile to his fellow man.

An FFA member knows he can't become discouraged and give up after each defeat.

An FFA member is more than a boy. He's a man in the making. *(Contributed by Paul Taylor, Vice President, Clay City FFA Chapter, Illinois)*

"We All Have A Role To Play"

In this interview, a former FFA member tells how he accepted a challenge and offers some of his ideas for success.

Wayne Olhoft, state senator in Minnesota.

WAYNE Olhoft is the youngest state senator in Minnesota history. He was elected at 21, and represents District 11 which includes four counties in the western part of the state with Alexandria and Fergus Falls as the largest towns. His home is in Herman, Minnesota. In this interview with Dan Reuwee, FFA director of information, the former FFA member talks about politics and the FFA.

Q: *"What influenced you to run for the legislature?"*

A: "I really didn't have any interest in politics. I was farming and our district was lacking a candidate for either the House or Senate seat. Some friends came over and asked me if I would run for the state senate."

Q: *"How does it relate to your training in FFA?"*

A: "Well, the FFA gives the student an opportunity to have leadership situations to develop his public speaking ability, his ability to associate with other people, to participate in contests which sharpens his competitive action and his concentration. Parliamentary procedure is probably one of the more important areas. The legislature is one of the most structured organizations you will find anywhere as far as following parliamentary procedure. Everything is by the rule. There is no cutting corners."

Q: *"What did you do to prepare yourself for your job as senator?"*

A: "I guess just being an average citizen. I went to school a couple years at the University of Minnesota, St. Paul campus, and studied agriculture. I tried to get a broad base while there in semantics, speech, did some effective reading, and effective listening. I think that is an art, too, listening to both sides of the story. As far as being prepared, I don't think anybody will be prepared to take over a senator's or representative's job because you cover such a tremendous and advanced area of material that you are never going to be an expert in all of it. You just have to specialize in one small area and be very good in that area. For other issues, you have to rely on other people to give you hints as to what action you should take on a bill."

Q: *"What do you think is the main issue that confronts us today, in your area and the nation?"*

A: "It is for Americans to begin shifting gears and realize that no longer is our goal greater affluence but meeting the essentials of our life. We are finding ourselves short of energy, short of clean air, clean water, and in the world community at least, short of food. Within the next ten years, Americans are going to have to redirect their attention towards how we can live more thriftily with other folks throughout the world and take care of our valuable resources."

Q: *"Do you find yourself touched in any way by the political scandals?"*

A: "Well, not directly. Indirectly, it makes me want to play the game even more fair. The only route for any public official or private citizen, no matter what your role in life may be, is to play fair."

Q: *"What kind of opportunity do you see for young people in government leadership, now and in the future?"*

A: "There is a very good opportunity now. I guess I am an example of it. The fact that the mayor of the fourth largest city in Minnesota is 23 years old is another. This indicates that people are receptive to getting younger people in government. I've had people make the comment to me, 'Oh boy, it's sure nice to see some young people getting into the legislature.' I just hope we don't go too far. A few of us is good, yes, to provide perspective, fresh thinking, and just another point of view. But we really don't have the experience and expertise that the older, more experienced fellows have to offer."

Q: *"How about your relationship with other congressmen and senators who are obviously older than yourself?"*

A: "My relationship has been very, very good. I have not gone in there trying to turn the world upside down. I did mostly listening this past session. I felt that this was my proper role; to listen, to see what was going on, to get an understanding and do the best I could, and not really try to stir up any hornet's nest. I have seen other young members do this and they have lost their creditability because of it. But I received a great amount of respect I feel and whenever I did have something to say I didn't say it like I was a world leading authority but said, 'From my point of view it looks like this.' "

Q: *"Do you have any words of wisdom for young people who are going into a situation like this?"*

A: "We all have a role to play. I guess my words of wisdom would be that government is the result of people participating and being active in it and keeping a close eye on it. The way

you get bad government is when people leave it up to someone else."

Q: *"You were a participant in the FFA Work Experience Abroad program in 1969. Do you see any relationship to the experiences you are having now?"*

A: "Yes, a very, very great relationship. Their standard or style of living [in Germany] is what we are going to end up with in a few years. They have been thrifty. They have been unable to produce enough food to eat. They are dependent on other countries for the supplies of oil, fuel, and energy, and it is where America is moving toward. By living in that life style I know what it is going to be like and I guess I'm happy that it is going to be that way. It has bothered my conscience for a long time that Americans have been so wasteful."

Q: *"What's a day like for you when the legislature is in session?"*

A: "I usually try to get to the office before 7:30 a.m. and do some things like reading and clearing up the desk. At eight o'clock I start my committee meeting that goes for two hours. At ten o'clock I switch to another committee that lasts for another two hours—till noon. Towards the latter part of the session there is a meeting on the senate floor every day and usually our floor sessions start at noon and go until two o'clock. At two o'clock there is another series of committee meetings but I don't have any committees that meet at that time so I meet with lobbyists and read my mail, catch up on the backlog of work, and reading. Then I can get lunch, too, after two o'clock, if I get around to it. When we are in the heavy session at four o'clock we go back on the floor and start working on bills again. Otherwise, during the early part of the session, when it isn't so heavy, at four o'clock or so I may go to the athletic club for awhile and then come back to the office and work for the evening."

Q: *"What committees are you on?"*

A: "I am on natural resources and agriculture, sitting on the sub committee of agriculture and sub committee of environmental protection which are my main two interests. The second committee I'm on is general legislation and transportation which deals with all the transportation issues, of course. Also, I sit on the election sub committee and veterans affairs sub committee. And the third committee I am on is local government which deals with counties, municipalities, and township types of governments."

Q: *"So all are pretty closely tied to agriculture?"*

A: "Yes, they are, and very appropriate for my area."

IS YOUR PET STARVING TO DEATH?

No matter how much you feed your pet, he may be starving to death right in front of your eyes. What can you do? Serve Sergeant's® Vitapet® Tablets regularly. Vitapet Tablets contain vitamins and minerals essential to good health and good looks. And they taste like treats! Get Sergeant's Vitapet Tablets for your dog or cat at the Sergeant's Pet Center wherever pet products are sold.

Sergeant's
the pet care people

©1974 Miller Morton Company a subsidiary of A H Robins Company

FOR YOUR HOME OR CHAPTER ROOM

A binder to hold copies of your National Magazine.

- Dark blue with gold lettering
- Holds up to 18 issues
- Issues easily inserted and removed individually.

$3.00 Each—2 for $5.00

Send check or money order to:
The National Future Farmer
P.O. Box 15130
Alexandria, Virginia 22309

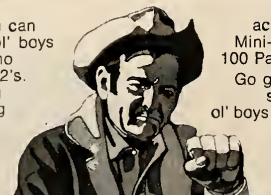
$3.00 Each ..... 2 for $5.00 .....
Name .....
Route ..... Box No. .....
City .....
State ..... Zip .....

The good ol' boys from the Snake River country can make your .22 shoot like a magnum.

There's one thing you can say about the good ol' boys in Lewiston, Idaho who make CCI Mini-Mag 22's. They don't like putting their name on anything less than the best.

So they custom load Mini-Mags for higher velocity. They wrap the bullets in heavy copper plating for hard-hitting accuracy. And then they put Mini-Mags in the handiest little 100 Pak dispenser you ever saw.

Go get some and start shootin' straight. Just like the good ol' boys in the Snake River country.



CCI
mini-mag .22's
OMARK INDUSTRIES
Sporting Equipment Division

Practicing Emergencies:

He Did It in the Driver's Seat

THE driver put the car in reverse, accelerated to 50 miles per hour, and suddenly turned the steering wheel sharply so that the vehicle spun 180 degrees.

A demonstration on how to back one's car out of the garage in a hurry? Not exactly. To the very surprised passengers, this was the beginning of a condensed version of the Advanced Driver Education Course developed by General Motors.

For Michigan FFA President Allen Nofziger this was part of an eventful day at the GM Proving Ground in Milford, Michigan. The session began with an early morning chalk talk with Richard A. "Doc" Whitworth, GM traffic education specialist.

"The entire point of this course," says Mr. Whitworth, "is to teach drivers how to cope with certain driving emergencies. The entire program takes 7½ hours with 1½ hours spent in a classroom and the other 6 hours on the driving exercises. I think this condensed version will make you a better driver.

"Two facts—the need for improved driver education in America and the importance of safe driving as a prerequisite to operating our Proving Ground operation—led to the development of the Advanced Driver Education Program which you will take today," he continues.

Allen was also shown films and demonstrations with model cars before his three hours of in-car exercises on a huge asphalt-covered vehicle dynamics test area with a surface equaling 59 football fields.

Allen, Mr. Whitworth, and Michigan FFA Executive Secretary John A. Deppong climbed into one of the three identical blue Chevrolets used for driver education research. Mr. Whitworth, an experienced test driver of 20 years, began with the reverse 180-degree turn at 50 mph. "This is your confidence ride, gentlemen, to assure you that an American car is just about impossible to roll over under the conditions we will be driving."

"That was a little hairy," said the FFA'er, "with all that noise and smoke. But you made your point!"

Off Road Recovery

"In normal driving, a driver will often either deliberately or inadvertently drop two wheels off the road edge," said Mr. Whitworth. "This drop may be as steep as four to six inches. The great steering input required to climb the curb can cause the vehicle to lurch into the oncoming traffic lane." The test driver then demonstrated his point and followed this with an illustration of how to climb the curb safely.

Now it was Allen Nofziger's turn. "Get your speed up," barked Mr. Whitworth. "Keep it up...up...good, hold it. Now, drop two tires off the road... good. Straddle the curb...now, a quick steer back into the lane..."

Three cones marking the track were knocked down. "I was a bit late," Allen said sheepishly.

"Yeah, but that wasn't too bad," responded the test driver. After three more attempts, the FFA state president had the maneuver mastered.

Skid Control

"Can't I quit while I'm ahead, Doc?" asked the student.

"Oh, no, on to the skid pad!" came the reply. The skid pad is a 24-foot wide strip coated with blacktop sealer and wetted down with water, making it almost as slippery as an ice-covered road.

"Al, when I push this button as you angle the car into the skid pad at about 30 mph, you'll feel a loss of rear wheel cornering traction and the car will start to go out of control," explained the instructor, who controlled a braking devise which locked up the rear wheels. "You've probably been taught to steer in the direction of the skid and that's

(Continued on Page 40)

Allen Nofziger, pictured above with Mr. Whitworth, was successful on his initial attempt in the skid control test because he reacted to the "second skid."

Photo by Author

The arrangement between Wayne, left, and Jim has furthered their career goals.

State Officers Unite To Succeed

Their relationship is linked to similar FFA experiences.

By Ron Miller

WAYNE Buck, a former state officer in Missouri, is providing Jim Thomas, a Marshall FFA member, with the opportunity for experience in farm management. This opportunity is the main reason why Jim became vice president of the Missouri Association and has an exceptional start in his chosen agribusiness career.

"Jim had a problem in that he lived in town when he entered vocational agriculture," says Instructor Bill Northcutt, former Marshall advisor and now vo-tech instructor at Hannibal. "Jim kept one sow on his grandmother's place and longed for the day when he would be able to own his own farm."

Then in 1970 Jim began working for Wayne as part of his agribusiness experience program. Since then, according to current Advisor Mark Thomeczek, Jim has performed practically every job imaginable on Wayne's up-to-date livestock farm.

After graduation from high school Jim continued to work for Wayne while attending State Fair Community College in Sedalia. Jim's course in farm management required an internship and employment on Wayne's livestock and crop operation fit nicely into the course requirement.

Upon completion of the two-year course last year Jim had several interviews for farm management positions. Jim, however, decided to work full-time for Wayne as an assistant farm manager. The reason: Jim wanted to continue to expand his own hog operation so he can reach his goal of becoming a farm owner himself.

While still in high school Jim and his folks moved to the country. There Jim gradually expanded his own sow numbers and began selling feeder pigs. Today, under agreement with his employer, Jim raises pigs to weaning age and delivers them to Wayne for finishing.

Thus far Jim has sold over 500 hogs under contract to Wayne. Jim receives $4.00 per pig when market hog prices are $18.00 per hundredweight.

For each dollar rise in the market Jim's price increases by 50 cents per pig. So when hogs are bringing $36.00 per hundred, for example, Jim gets $13.00 for each pig he delivers to Wayne. The price per pig also drops according to the market.

Wayne and his wife Carolyn, a member of Missouri's Young Farm Wives, manage 818 acres—owning 178 and renting the other 640 acres on a share-crop basis. Their crop program consists roughly of 250 acres of corn, 150 acres of soybeans, 40 acres of wheat, 25 acres of hay, plus 120 acres of diverted land and pasture.

Their year-round livestock numbers include approximately 75 Angus cows with calves, 15 heifers, 3 bulls, and almost 200 hogs on feed.

Wayne, a member of the local Farm Credit board uses a unique 28- x 72-foot swine finishing barn with an automatic flushing gutter to feed out some 500 market hogs a year. The waste is flushed into a quarter-acre lagoon, and the water is recycled for flushing again. The facility includes eight pens which hold 25 hogs each.

The livestockman's setup also features a 2-acre pond for watering his stock and a feedlot located aside of his grain storage and concentrate bins. The feedlot, which drains into the same lagoon as the finishing barn, is used for backgrounding about 200 steers and heifers a year.

Throughout the year Wayne purchases about 30 Holstein bull calves from Wisconsin and feeds them out with the extra feed produced on his acreage. The dairy calves receive no dry roughage, but are allowed to graze on pasture during the 12-week feeding period.

Because of his experience in the FFA Wayne saw to it that Jim learned about management as well as production practices. Jim is now capable of mixing rations for the livestock, spraying and planting crops, maintaining the machinery, and in general of handling the operation while Wayne is away.

Today, Wayne, a recipient of the American Farmer degree, and Jim, a candidate for the highest FFA degree, work together like partners.

Practicing Emergencies:

(Continued from Page 38)

correct—but not complete. You'll have to steer twice!"

Mr. Whitworth explained how there is the initial skid, and the "second skid" which occurs after countersteering from the first skid. "Make certain you catch both skids as soon as possible!"

Allen's first attempt at 20 mph was a success. On his second pass at 30 mph, he spun the car 360 degrees.

"You forgot about that second skid!" said Mr. Whitworth to the startled Michigan FFA member.

Controlled Emergency Braking

"Now imagine," began Mr. Whitworth, "that you're driving up a hill at 45 mph and suddenly, a stalled truck is blocking your lane. You can't veer off the road because rows of trees line the highway. And you can't hit the brakes because you'll skid into the truck. Your only hope is to quickly steer around the truck, trying not to lose control, and return to your lane as soon as possible."

Allen's test was to drive down the lane at 45 mph and at the cue (about 60 feet from the barrier) apply the brakes and steer left around the obstacle.

"You only clipped one cone!" said Michigan Executive Secretary Deppong from the back seat. "Not bad at all."

"Right," said Mr. Whitworth. "But next time, don't slam on the brakes, *squeeze* them and make your turns sharper." It took Allen a few more practice runs, but he eventually put all elements together and, you might say, "passed with flying colors."

Evasive Maneuver

The FFA representatives were then briefed on the next test by Instructor Whitworth. "Many drivers are unaware of the evasive capabilities of their automobiles and tend to be dependent on the brakes in emergencies. But a locked wheel cannot provide steering control."

Advanced Course

Versions of the GM Advanced Driver Education Course have been established at some two dozen locations around the country, mostly connected with universities. Mr. Whitworth hopes that his program can serve as a catalyst for establishing other driver training programs. His people are able to advise on costs and facilities required for initiating such training into local driver education programs.

Mr. Whitworth, GM traffic education specialist, explained the operation of the blowout simulator to Allen and Michigan Executive Secretary John Deppong.

Allen was told to drive down the lane at 45 mph and, on the instructor's cue (60 feet from the barrier) turn either left or right to avoid striking the cone barriers. He would be forced to make a split-second decision and there was no way to anticipate Mr. Whitworth's command.

The FFA'er, with his heart pounding, began accelerating down the lane until he reached a steady 40 mph.

"Left!" shouted Mr. Whitworth.

But the car went right—well, almost!

"First," admonished the instructor, "don't anticipate my command. And second, once you choose a direction, follow it through with positive steering."

Tire Failure

In two years of driving, Allen Nofziger had never experienced a blowout. That's not unusual, because most people drive tens of thousands of miles before having a flat tire.

"We used to teach people how to control cars during blowouts by actually slicing the tire or exploding it," said Mr. Whitworth. "As you can imagine, we went through a lot of tires that way."

To make this instruction practical on a broad scale, GM Proving Ground personnel developed a blowout simulator, which allows the tire to be suddenly deflated much like a real blowout. An on-board air tank stored in the trunk will reinflate the tire. The unit has been licensed and is available to driver education people at a cost of about $350.

Mr. Whitworth continued, "The thing to remember is try to stay in the marked lane. Don't apply the brakes until the car is going where you want. Then, use the brakes and slow the car as quickly as possible without locking up the wheels."

After experiencing a few airouts with the simulator, Allen said, "I expected more vibration than I actually felt."

"That's right," said Mr. Whitworth. "Most people get into trouble because they panic and overreact!"

The day had tested the FFA member's driving skills to the limit, but he was a better driver for it.

This is the third in a series of articles about defensive driving and driver attitude scheduled to climax in the upcoming issue of the magazine.

"Here you are, son, the gas shortage just reached you!"

Outdoor Classroom Serves Community

One thing led to another and now almost everyone in Rabun County knows about this chapter's horticulture projects.

By Eleanor Gilmer

Tomatoes grown in the greenhouse are eaten in sandwiches by the students.

HOW would you like to sit in a classroom surrounded by beautiful flowers and trees with a mountain in the foreground? Rabun County, Georgia, horticulture students do this every day.

When there was a need for classroom space for Rabun horticulture classes, FFA Advisor Jack Martin decided, what better way to teach about plants than be surrounded by them. So with his help, the students built themselves an outdoor classroom.

They cleared out an area behind the greenhouse (many of them helped to build it three years ago) and landscaped it by planting grass, flowers, and shrubs. They built a concrete sidewalk to the area, made a fountain and stocked it with gold fish, built benches, and a backdrop. A stump used as a podium was wired and a light installed. The art class painted colorful flowers on the backdrop.

The outdoor classroom makes learning about horticulture a "natural" thing.

The greenhouse used in the Rabun County ornamental horticulture program is 30-feet by 50-feet. It has 14 growing benches where the students have grown all kinds of plants.

One of the projects recently tackled by the students was building terrariums. They studied about plants suitable for terrariums and then found wild plants growing in the woods to put in their terrariums. Dish gardens, built by the students from rocks, wood, or any other creative objects, were another specialty of the horticulture class.

The horticulture program has proven to be a good public relations activity for the Rabun County FFA, too. Flowers are placed in the lunchroom and other areas around the school. Recently students donated and arranged the flowers for a beauty contest.

As a community service project, Rabun County students have landscaped several churches in the area, supplying the plants and fertilizer. They also keep the school ground looking good, and have helped to beautify the main street of Clayton. They sold 1,000 dogwoods to Clayton citizens.

One interesting project adopted by the Rabun members was a hanging basket contest. The students made their own baskets from hub caps, logs, and other things. Three prizes were given for the most creative baskets.

With their keen interest in beauty, it's only natural the Rabun County students participate in the FFA BOAC awards program. The students have conducted assembly programs and appeared on radio, television, and civic club programs to explain BOAC. They have gotten help from many organizations, including the Women's Club who planted flowers around the courthouse.

With such involvement in their community is it any wonder that Rabun County students like to study outdoors.

FFA in Action

INTERNATIONAL

A Combine by Harvestime

The rebuilt combine had to be crated for shipment to farmers in Ecuador.

Farmers in the Santa Elena Peninsula of Ecuador will turn to mechanized harvesting this year with the help of a reconditioned combine being provided by the Canby, Minnesota, Chapter and the Meals for Millions Foundation of California. The FFA chapter reconditioned a used combine to be shipped to the campesinos (farmers) in the Santa Elena Peninsula. The combine is expected to arrive just in time for the Ecuador harvest season.

Arrangements for the project were made through the National FFA Organization International Program which has been working closely with the Meals for Millions Foundation, a nonprofit organization specializing in protein food technology. The combine reconditioning project is only one part of the effort to provide Ecuadorian people with a low cost protein food to supplement their diets which are currently low in protein.

Last year about 25 acres of soybeans were planted experimentally, and were harvested by hand. The initial results of the crop were excellent. This January, 445 acres were planted to soybeans.

The primary purpose of the project is to help the campesinos become economically self-sufficient, while at the same time producing food needed in their country.

The Canby FFA Chapter purchased a six-foot, pull-type combine from a local farmer. The reconditioning project is being carried out in the vocational agriculture shop as part of the instructional program to give students practical experience in agricultural mechanics. When the reconditioning was completed, the machine was crated for shipment to Ecuador by the Meals for Millions organization.

In Ecuador the combine will be placed in a farm cooperative where it will become part of a machinery pool used by farmers in the Santa Elena Peninsula. The cooperative already owns a tractor and several other pieces of mechanized farm equipment which farmers rent on a daily basis to do their farm work. The combine will be a valuable addition to this equipment as it will eliminate the inefficient and back-breaking labor of harvesting soybeans by hand.

CITIZENSHIP

For Fire Protection

Creating a rural fire protection district is the Building Our American Communities (BOAC) project of the Warren FFA at Monmouth, Illinois.

Approximately 40 percent of the Warren school district lies in an area without a fire protection district. Fire losses exceed the national average in this area.

Residents of the Warren school district were surveyed to determine what improvements were necessary to make the community a better place to live. The need of fire protection was mentioned on a majority of the surveys.

The BOAC committee decided to make this their project and named it "Operation Redlight."

In an FFA conducted survey, over 93 percent of the people in the area were in favor of the project.

A committee of 36 people from the proposed fire protection district was formed. There were six representatives from each township. Nearly all of the committee members were also Warren FFA Alumni members.

From this committee an executive committee was selected and they met every two weeks for the past year. FFA members and Advisor William Schreck have been involved in all of these meetings.

The executive committee investigated the legal aspects of forming a fire district and determined a fire district was financially feasible.

Warren FFA members will soon be circulating petitions for forming a rural fire protection district. After these are completed, public meetings will be held.

The FFA chapter will be printing fire district information brochures for the public meetings. It will present the need, estimated costs, and feasibility of the project.

These brochures will also be used in a referendum, which is the next step. Residents of the proposed district will vote on the creation of the fire protection district. An affirmative vote will establish the fire district. The district can then levy taxes, buy equipment, and build facilities.

The Warren FFA Chapter plans a "get out and vote" campaign with the election. It will be held this spring or summer.

The chapter has kept the public informed about its BOAC project. Over 30 articles have appeared in newspapers. Two 30-minute special television programs were broadcast. The chapter's weekly FFA radio program often dealt with the fire district project. Programs about the fire district were presented to the farm and civic groups.

A Cleaner Memorial

The officers of the Petersburg, West Virginia, Chapter were approached by the Grant County Court to clean the World War I monument in front of the courthouse.

The monument was covered with moss and dirt from pigeons and birds roosting on it. Since it is located on the main route through town and in full view of visitors, it was not a very presentable site, nor was it serving as much of a memorial to those who had given their lives.

The members voted to do the project and went to work with rubber gloves, brushes, and a mild acid solution. After six scrubbings and a hosing down, the monument looked more like a memorial. *(Greg Keplinger, Secretary)*

It took six scrubbings before members could get the monument clean enough.

Whose Brand is It?

Almost all of the cattle, sheep, and horses in the area around Newell, South Dakota, are branded for owner identification. Mix-ups and strays are common not only in the farming areas (under the Belle Fourche Irrigation Project), but also in the larger rangelands.

Therefore, the local FFA chapter decided to develop, publish, and sell a brand book. The book shows a drawing of the brands; gives its description, its location on the animals, and tells the owner of that brand.

To collect the needed information, the FFA advertised their plan in newspapers and local sale barns. They explained the purpose and objective of this first edition.

Copies of the FFA Brand Book of 400 local brands sell for $1.00 each. *(Matt Persche, Reporter).*

SERVICE

Cycle Safety Day

The Boaz, Alabama, Chapter safety project was a startling one.

Two wrecked cars in which the drivers were killed were displayed on each side of the high school. Signs were made by FFA members explaining the severity of the crash and how safety would have helped.

A bicycle course was set up on the school ground, also. With the assistance of the state highway department and local police department, FFA members set up the course as outlined in the encyclopedia.

A bicycle safety day was proclaimed and FFA members rode their bicycles to school to learn how to use the course. Races were planned and prizes were given to riders. *(Marion Jackson Jr., Advisor)*

Showing Public Safety

Each year the Hoven, South Dakota, Chapter holds a Public Safety Show. The purpose is to inform the public of the importance of safety.

This year's show was held Sunday, February 17, during National FFA WEEK in the school gymnasium.

Nine committees of approximately three members each worked on different areas of safety. Those areas were: machinery safety, tractor safety, traffic safety, livestock safety, chemical safety, farm shop safety, farm home safety, electrical safety, and recreational safety. Other agencies were invited to set up safety exhibits, too. The local co-op service station displayed safe motorcycles and snowmobiles for recreational safety. The state game, fish, and parks department had a display on recreational safety; and the state highway patrol had a display on highway safety.

Members also gave safety demonstra-

(Continued on Page 44)

WORMS CAN KILL YOUR PET.

Large roundworms (Ascarids) can kill your cat or dog. And he can pick them up any time—even be born with them. What can be done about the "worry of worms"? Sergeant's® Worm-Away® Capsules mix easily with pet food to rout roundworms. For other worm problems, get Sergeant's Sure Shot® Capsules, Puppy Capsules® or Tapeworm Medicine® at the Sergeant's Pet Center wherever pet products are sold.

Sergeant's
the pet care people

©1974 Miller Morton Company a subsidiary of A.H. Robins Company

The knife for hunting, fishing and all around use. Mirror polished, imported stainless steel blade honed to a razor's edge. Rugged. Opens with flick of finger. Locks into position. Blade will not close when in use. Press button in handle to close. Safety finger guard. Sure-grip handle. Balanced for target throwing. **IF BROKEN WITHIN 10 YEARS WE WILL REPLACE AT NO CHARGE! Use 30 days. Money back if not pleased. Special 1¢ Sale. REGULAR** PRICE $2.50. Send $2.51 & receive 2 knives. Add 49¢ postage, handling. **Remit TOTAL $3.00 for 2 knives.** ORDER NOW! Midwest Knife Co., 9043 S. Western Ave., **Dept. DDSK-3636** Chicago, Ill. 60620. Established 1936. Mail Orders Only

In December it will be too late!

In December of 1974, it will be too late to consider using Official FFA Calendars to promote your chapter and vo-ag department in 1975.

So include it now in your planning session. This official program can gain publicity and attention for your chapter in the community. And it can be done at no cost to the chapter (with business firm sponsors). In fact, your FFA chapter can earn a sales commission.

Other chapters might choose to purchase the calendars as a Thank You for the support.

What are the details? Send for your chapter's FREE 1975 Official FFA Calendar Kit with samples of the four styles and order forms.

Don't wait until December. It'll be too late.

Calendar Department, National FFA Center
P.O. Box 15130, Alexandria, Virginia 22309

Three 22 Scopes:

Weaver lightweights that make big game out of small game.

What's little doesn't have to stay little.

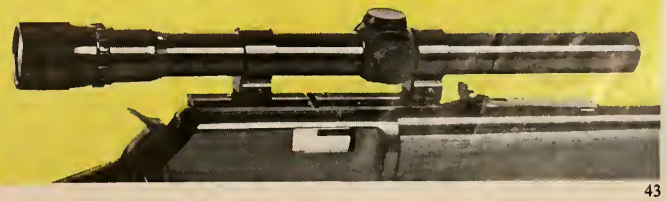
Look through a Weaver 22 Scope. Its powerful achromatic lens system filters out colors you aren't supposed to see. Optics are housed in a ⅞" tube that's lightweight and perfectly matched to 22's.

Quality. That's a Weaver 22 Scope. And you can have one three different ways: a 4-power Model D4; a 6-power Model D6; or, for the best all-around shooting, Model V22 with 3- to 6-power.

See them at your dealer. Or write for free color catalog that shows Wider-Views, K Models, V Models, 22 Scopes, Qwik-Points. W. R. Weaver Company, Dept. 93, El Paso, Texas 79915.

WEAVER SCOPES

The Great American Scope.



FFA in Action

(Continued from Page 43)

tions. A free lunch and door prizes were given to the attending public. *(Allen Simon, Secretary).*

Helps Emergency Squad

Everet Beatty, River View, Ohio, FFA member presents a cardiopulmonary resuscitator to the captain, left, of Warsaw Emergency Squad. New machine was part of FFA's BOAC work.

Seeing A Tree

Parker, Wisconsin, FFA orchards are popular spots for tours and visits by youngsters from the nearby school for the visually handicapped. Here members "show" a tree to the students. FFA produces over a thousand bushels of apples per year in their orchards.

After the Storm

Moundridge, Kansas, FFA crews cleaned up tree limbs after a severe winter ice storm. They donated their time, trucks, and chain saws in hauling the 45 truckloads of branches to a dump.

COLLEGIATE

Trained Salesmen

Two recent activities of the Agricultural Education Society at The Ohio State University will help the members be better prepared for careers as vocational agriculture instructors.

Fifty-two Society members and advisors traveled to Ohio FFA Camp Muskingum at Carrollton the weekend of April 19 and 20. They repaired facilities on the camp grounds, planned their program of activities for the next school year, and thoroughly relaxed to enjoy the recreational facilities and equipment of the camp. They were able, as future advisors, to see the camp and become better prepared to "sell" future students on camp.

Also, the club "fed the two thousand" participants in the state judging contest held in Columbus on the agriculture college campus.

Thousands of hot dogs and hamburgers were sold by A.E.S. members in the lunchstand to nearly 2,500 FFA members on the judging teams.

Each year the A.E.S. provides lunch at the contest and uses the profit for the activities of the Society during the year. *(Ron Stuckey, Reporter)*

PUBLIC RELATIONS

Attracting Attention

Sixteen West Virginia Chapters had educational exhibits at state fair.

Four chapters took Gold Emblem honors and received $40.00 and a blue ribbon. Greenbrier West used a theme "Broaden Your Horizon Through BOAC" and illustrated it with a model landscape marked as possible BOAC improvement projects.

Lewis County's theme was "Give A Hoot, Don't Pollute". They used a large owl to attract attention then used photos to tell the message.

Middlebourn had a real attention-getter with two ducks circling in a miniature water pond amidst greenery. Their message was "Why Circle the Issue? People Cause Pollution. People must stop Pollution."

Ripley Chapter's message was "Habitat Loss Means Curtains for Wildlife." They had designed a little stage with curtains on each side. On stage were photo scenes suggesting ways to provide food and cover for wildlife.

The four Silver and four Bronze Emblem exhibits were: Point Pleasant (Silver): "Input Yields Output," illustrated that neglect yields zero production and approved practices yields maximum production. Shady Spring (Silver): A fire engine spraying water on a burning home drew attention to the theme, "Be Firesighted, Support Local Fire Departments." Spencer (Silver): An illuminated key illustrated "Vocational Agriculture Is the Key to Agricultural Careers." Wirt County (Silver): A staircase was used to portray the "Steps to Success." Greenbrier East (Bronze): "You Make the Difference" illustrating that pollution is a result of man. Hundred (Bronze): A turntable with a large number one emphasized the FFA organization as the "Big One for Youth." Mannington (Bronze): A picture of Whistlers Mother and several accident scenes stressed "Safety Is Nothing to Relax About." Ravenswood (Bronze): New objects created from discarded materials showed one may go "From Trash to Treasure."

FOR FUN

Free Publicity

This photo was taken by Rev. Glenn E. Coleman, of Ohio on a summer trip in Wisconsin. He was an FFA'er himself and was attracted by the "FFA" sign, so he got out his camera.

Spark for Reporting

One man's concern for the FFA and agricultural news reporting has done much to create interest in the all-important chapter reporter's job in California. Mr. D. Ross Sullivan, head of the Public Relations Department of Atchison, Topeka, and Santa Fe Railway in California and other western states, has developed a new award

These trophies will be used to honor FFA chapter reporters in California.

Like A Melody

National FFA President Mark Mayfield got the pleasant assignment of escorting Miss Wisconsin Farm Bureau, Ruthann Schwenn of Dane.

which he sponsors within the state.

Every chapter reporter is eligible to compete in a statewide reporters' contest at section, region, and state levels. Awards are given at each level. The top reporter is declared State Star Reporter and earns a star reporter's plaque and $100 as an incentive to improve chapter news reporting.

The reporter is scored on the number and quality of articles which he writes and has published in local and state news media. Radio and TV reports are included when it is verified that they have been used. The reporter keeps a chapter scrapbook with clippings of articles printed and written reports on chapter activities relating to public relations. Scrapbooks are scored and recognition is given at the state FFA convention. *(Jerry T. Davis, Assistant State Advisor)*

"I don't know if it's my new seed, or Junior's new math—but I've increased yield this year."

COMMUNITY AGRICULTURE

Mother's Helpers

The livestock program of the Santa Fe, Florida, Chapter will one day pay off for the community's agriculture. Here Billy Wilson and Wayne Engstrom help a new calf to its feet. The calf is a product of a breeding experiment by a livestock class and was born just minutes before in the school pasture.

Hogs for Cooperation

The Washington, Kansas, Chapter is now leasing a one-acre plot including buildings and farrowing facilities for a swine production farm.

To start the farm, called the "Washington FFA Cooperative Production Farm," the chapter purchased ten Yorkshire sows and a few crossbred York-Hampshires crossed with a Duroc boar. The chapter also bought a Duroc boar for breeding purposes.

Sows were bought January 7 and several were placed in the crates that week.

The first nine sows farrowed 101 pigs, two were lost, leaving an average of 11 pigs per litter.

The tenth sow gave the members a new learning experience. She aborted her entire litter. So she was sold.

All members have learned to clip and doctor navels, clip needle teeth, give booster shots, and care for the sows properly while they are farrowing.

The FFA set up the production farm so all could get a working knowledge of a cooperative and experience in the swine industry.

The farm will allow members in town and on small farms to have a project.

The cooperative is set up on a share basis, with shares selling for $5.00 each. So far the FFA has sold about 175 shares which includes most members.

A board of commissioners is in charge of the total cooperative operation with Vocational Agriculture Instructor Scott Johnson as advisor. *(Ron Ditmars, Reporter)*

(Continued on Page 46)

SOUTHEASTERN COLLEGE
DURANT, OK 74701
An Equal Opportunity Institution
Please send me the 1974 catalog for your fully accredited small college near Lake Texoma with out-of-state bd., rm. & tuition averaging only $1240. I am particularly interested in
☐ AVIATION (BS degree program)
☐ CONSERVATION, ☐ TEACHING,
☐ SOCIAL SCIENCES,
☐ OTHER (name)
NFF74
NAME
ADDRESS
ZIP

EXTRA INCOME! MAKE $1 PER SALE
SELL ENGRAVED METAL SOCIAL SECURITY PLATES
Millions of new prospects added every year! No investment needed.
SEND FOR FREE SALES KIT TODAY!
ENGRAVAPLATES, DEPT. 338
P.O. BOX 10460 • JACKSONVILLE, FLA. 32207

TOMATO GREENHOUSES
Raise vegetables year round for wholesale market. Free details.
Everlov'in Mini - Farms
Route 4-BY
Huntsville, AL 35803

Change of Address

If you are moving, please let us know promptly so you will continue to receive **The National FUTURE FARMER** without interruption. Send your new address along with the address label from the most recent copy of your magazine to the address below.

To Subscribe

Keep **The National FUTURE FARMER** coming to your home—even after you are out of high school. To subscribe send your name and address (including route, box number, and zip code) along with $1.00 for each year you wish to subscribe to address below. If you are renewing your subscription, please include the address label from your latest magazine.

Circulation Department
The National FUTURE FARMER
P.O. Box 15130
Alexandria, Virginia 22309

MEN . . . WOMEN
Train at Home to be a
VETERINARY ASSISTANT . . .
● If you love horses—or work with them—this remarkable new course you can study in your spare time, will train you for a rewarding job as Veterinary Assistant and provide specialized knowledge to help you in caring for horses. Also trains you to assist Veterinarian with small animals, work in zoo, laboratory, pet shop or kennel. *Accredited Member, National Home Study Council* Mail Coupon for FREE CAREER KIT
Careers in Animal Care
North American School of Animal Sciences, Dept. QE054
Careers by Home Study
4500 Campus Dr., University Plaza, Newport Beach, CA. 92663
Please rush me — without obligation — your big "CAREER KIT"
Name Age
Address
City State ZIP

GROOM THEM WITH THAT SPECIAL TOUCH

Use the "right tool" for the job. It can make a big difference in any show animal's final appearance in the ring. And, Nasco has it. Everything for fitting and showing. You'll find it in the new Nasco Farm & Ranch catalog. Plus many other supplies. Ask for your free copy. **Write Dept. AL-46.**

Nasco

Fort Atkinson, Wisconsin 53538
or Modesto, California 95352

Nasco is proud to be co-sponsor of FFA Beef Proficiency Award

One of A Kind

There is only one official supplier of FFA merchandise. It is National FFA Supply Service, Alexandria, Virginia.

- **Owned by FFA**
- **Operated by FFA**
- **For FFA**

That's right. Totally owned by FFA members and operated for them. Controlled by the National FFA Board of Directors and National FFA Officers.

All income above the cost of operation is used by the organization for the benefit of FFA members—not as profit to any individual.

Don't be mislead by companies trying to commercialize on the name and emblem of FFA. If it is not from the National FFA Supply Service located at Alexandria, Virginia, it is not official.

Your advisor is mailed a catalog each summer. See him to order your FFA items.

Support FFA! Order from the:

National FFA Supply Service
P. O Box 15159
Alexandria, Virginia 22309

FFA in Action

(Continued from Page 45)

Animal Farm

The main project of the North Thurston, Washington, Chapter during FFA WEEK was a portable animal farm which they transported to four of the local grade schools.

Approximately 1,400 students toured the farm and were allowed to handle some of the animals. The farm included many rabbits, baby chicks, ducks, geese, chinchilla, a cockatoo, a goat, a ewe and baby lamb, pigs, and calves. The younger students were treated to ice cream bars courtesy of the FFA. All students received either a noble fir seedling, compliments of the Industrial Forestry Association, or a seed packet from Weyerhaeuser.

Other projects during the WEEK included landscaping a local nursing home with materials donated from local nurseries. A program was taped and aired on a local radio station and slides with articles were sent to the TV stations in Seattle. There were articles and pictures in local newspapers. The public was further made aware of FFA WEEK by the use of reader boards.

A slide presentation was shown to the North Thurston Kiwanis Club. At this time the FFA presented the club with an Honorary Chapter Farmer degree as a thank you from the FFA for the rotation animals donated and other help to the chapter.

Campaigning for Produce

The Klein, Texas, FFA received a $100 merit award and certificate for outstanding community service in a special ceremony during the Houston Livestock Show and Rodeo.

The chapter won the award over several hundred other entrants in the Summer Action '73 competition sponsored by Manpower, Inc. The 70 members of the Klein FFA were cited for their area-wide publicity campaign to promote the produce of the region's truck farmers and residents.

Mr. Richard Weekly, president of the Houston Livestock Show and Rodeo, made the presentation to the group in the Astrodome before 50,000 persons.

The award was among more than 100 given away by Manpower to individuals and youth groups. More than $20,000 was given to the winners.

Advisor Leon Cummins, left, and members Donald Cobb, Eddie Stafford, and Steve Hawkins accepted the community service citation in the Astrodome.

Grand Sexton Photo

SCHOLARSHIP

Establishing A Fund

The Tri-Valley, Ohio, Young Farmer Association developed a scholarship foundation fund containing a combination of grants and loans. This program is to encourage vocational-agriculture graduates of Tri-Valley High at Dresden to attend college and prepare for a career in agriculture.

The program was initiated in 1967 when the Young Farmers deposited $2,500 at the First National Bank of Cashocton for a certificate at the highest rate available. The interest is used to finance the scholarships and/or loans.

Funds are available only to FFA members and graduates of the Tri-Valley Vocational Agriculture Department who have paid all annual dues. Student must be in the upper 10 percent of his graduating class, and the applicant must be enrolled and accepted in a college of agriculture major.

If the applicant has won a previous scholarship he is *not* eligible for the YFA scholarship in the same year.

A winner successfully completing each year of college is eligible to apply for a renewal of the scholarship loan. An annual letter is to be written by the winner to the Young Farmers Association indicating his progress, plans, and intentions concerning next year's scholarship. *(Jim Lepi, Public Relations Committee Chairman)*

HONORS

Esteemed Member

The Dos Palos, California, Chapter presented Beatrix DeBoer, a foreign exchange student, a jacket when she became a member of the FFA chapter.

Olds Studio Photo

Meaningful Oath

C. A. Williamson Photo

Gabriele Goebel, a German born citizen and president of the 160-member Conway, South Carolina, FFA Chapter, took the oath of allegiance to the United States of America with her mother and 56 other people last year.

Honored Conserver

Robert V. Fallert, Jr., an honor student at College of the Sequoias and recent member of the Monarch, California, FFA, has been selected to receive one of the ten American Motors Conservation Awards for 1974 in the non-professional category. The award consists of a citation, plaque, and $500 honorarium.

Bob is a young conservationist and an inspirational leader in many community-wide projects. He earned a State Farmer degree in 1973. The awards program and presentation was made at an anniversary dinner in Washington, D.C., on May 15, 1974.

Calendar of Events

June 3-6—Work Experience Abroad Orientation Conference
July 28-31—Board of Directors and National Officers Meeting, Ramada Inn, Alexandria, Virginia
August 1—Board of Trustees Meeting, Ramada Inn, Alexandria, Virginia
September 13-14—North Atlantic Regional FFA Activities at Eastern States Exposition in Massachusetts
October 15-18—National FFA Convention, Kansas City, Missouri

National FFA Conferences

Washington, D.C.—Alexandria, Virginia
June 10-15, June 17-22, June 24-29, July 8-13, July 15-20—Chapter Representatives
July 21-27—State Presidents

Regional State Officer Conferences

June 23-25—Montana
June 24-26—Louisville, Kentucky
July 1-3—Kansas City, Missouri
July 1-3—Boise, Idaho
July 8-12—Longbeach, Mississippi
July 11-14—Glenwood Springs, Colorado
July 31-August 2—Covington, Georgia

State FFA Conventions

July 7-12—Texas
July 8-11—Georgia
July 18-21—West Virginia
August 7-10—Arizona

COMPETITION

A "Teams" Victory

In 1974 the E. Broussard, Louisiana, Chapter has earned recognition for their hard work in vo-ag and FFA with winning judging teams.

After a couple of practice contests, the chapter sent participants to the area contest to compete with the other 76 chapters.

When the results were made known, the E. Broussard poultry team had placed second; the dairy products team, second; and the ornamental horticulture had placed first. Craig Hebert, one of the horticulture team members, had a perfect score in this contest and received a $20.00 check.

The pasture and range team also placed first along with a first place finish by the parliamentary team in the district and area, and a fourth in the state. *(Mark Touchet and Cole David)*

SHOWS AND FAIRS

Adding Spirit

The Gilbert, Arizona, Chapter has held a livestock show every year, but it had begun to lack a little spirit.

So this year they planned a program to add more to the show. First merchants and leaders of the surrounding area were asked to sponsor and furnish trophies for the show. Then to expand the show, provisions for dairy goats, dairy cattle, breeding cattle, and feeders were made besides the fat steer class.

For the first time all the chapters in the surrounding area were invited. Also, since the show is held about three weeks before the Arizona National Livestock Show, the host chapter invited a livestock inspector and a veterinarian to come to their show. Hauling and health papers are necessary for entering the nationals, so this would save the inspectors and the showmen a lot of time and money by getting together at the same time.

Before the Gilbert show, blocking stands and equipment were made available by the chapter for grooming and conditioning of the cattle. The advisors were there to help ready the calves and give tips on showmanship.

In order to cut down costs for showgrounds, the chapter made arrangements to use the school's football field for an arena.

The show started on time, there was a good turnout, and everything seemed more lively than ever. *(Arlen Frazier, Reporter).*

CHEVIOTS have what it takes:
• To survive lambing hazards;
• To develop desirable carcass weights on milk and grass alone;
• To impart these qualities to less fortunate breeds through crossing.

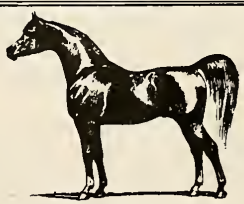
American Cheviot Sheep Society
Dept. of Agriculture
Missouri Western State College
St. Joseph, MO 64507

Suffolks take top honors at shows, fairs, exhibitions, in live showings, carcass judging.

NATIONAL SUFFOLK SHEEP ASSOCIATION
BOX 324 F, COLUMBIA, MO. 65201

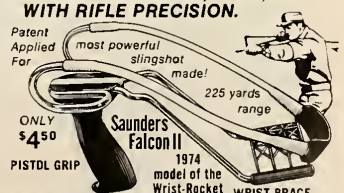
CALVES — CALVES — CALVES
2 to 14 weeks old. All calves delivered on approval with a Veterinary health certificate. Must meet with your approval on arrival only. Minimum order 25 head. We deliver or you may pick up your own from Wisconsin's most modern Calf barn. Visitors welcome. Call or write
BILL NOLAN LIVESTOCK, Inc.,
Bandwel, Wis. 54107. Phone 715-758-8484

SEND FOR THIS FREE!
Know how to break and train horses and ponies—make good money doing it. Write, today for this instructive FREE booklet plus a special offer of a course in Animal Breeding. Tell us if you are interested in Gaiting and Riding the saddle horse.
BEERY SCHOOL OF HORSEMANSHIP
2026 Pleasant Hill, Ohio 45359



THE VERSATILE ARABIAN
Beauty, power, intelligence, loyalty, gentleness--the Arabian horse can be your companion and the passport to a new world of fun. This legendary horse actually costs less to own than you would imagine. Wouldn't you like to learn more about the KING OF HORSES? Write now for free information. DEPT. FF
INTERNATIONAL ARABIAN HORSE ASSOCIATION
224 East Olive Ave., Burbank, California 91503

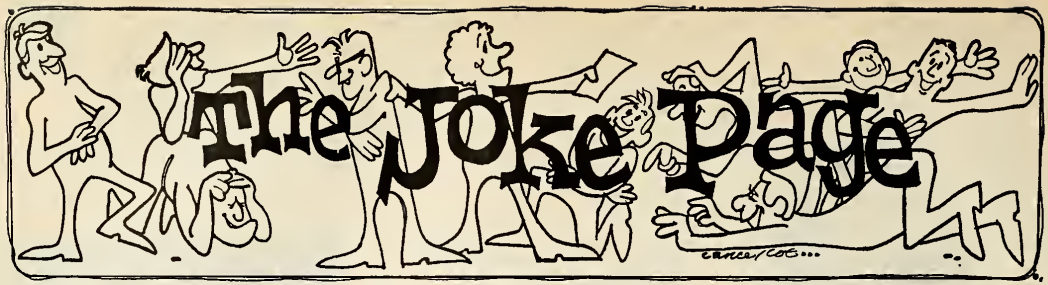
DROP SMALL GAME, RATS, ETC. WITH RIFLE PRECISION.



Develop accuracy in just a few tries. "How-to-Shoot" booklet free. Amaze Dad and your pals with your FALCON.

WRIST BRACE steadies grip so you can put more speed and power into your shots!

If your Saunders dealer cannot supply, order direct:
SAUNDERS ARCHERY CO., Dept. W, Columbus, NE 68601
Enclosed is $_____. Please send_____ Falcon II Slingshot @ $4.50 each postpaid. Satisfaction guaranteed or my money back.
Name_____
Address_____
City_____ State_____ Zip_____



Teacher: *"We know that the ruler of Russia was called the Czar and his wife wife the Czarina. Now what were their children called?"*

Pupil: *"Czardines."*

Thomas LaMance
Phoenix, Arizona

Mike: *"Hey, Jimmy, have you heard why cowboys always want to die with their boots on?"*

Jimmy: *"No, why?"*

Mike: *"So they don't hurt their toes when they kick the bucket!"*

Daniel Johnson
Thief River Falls, Minnesota

Johnny: *"Why did Tommy take that ladder to the party the other night?"*

Davy: *"Oh, he heard the drinks were on the house."*

Dwight Jackson
Manila, Arkansas

A semi-truck driver stopped to offer his help to a lady driver stranded on the expressway with a flat tire. *"What kind of jack do you have?"* he asked.

After looking in her purse she hesitatingly asked, *"Will $5.00 be enough?"*

David Richter
Linton, North Dakota

Jim: *"Why did George Washington stand at the bow of the boat and never sit down?"*

Bob: *"I don't know."*

Jim: *"Because every time he sat down someone handed him an oar."*

Roy Fazenbaker
Accident, Maryland

Bill: *"What did the balloon say to the pin?"*

Tom: *"I don't know. What?"*

Bill: *"Hello, Buster."*

David Denson
Louin, Mississippi

Drunk: *"Shir, can you direct me to Alcoholicsh Anonomomysh?"*

Man: *"Why, do you want to join?"*

Drunk: *"Heck no, resign!"*

Wesley Thorn
Carthage, Missouri

Sunday School Pupil: *"Teacher, let us sing the hymn about "Andy."*

Teacher: *"We don't know any hymns like that."*

Sunday School Pupil: *"Yes we do! 'And He walks with me and He talks with me . . .'"*

Freida Mogler
Lester, Iowa

Toastmaster to an assembled group: *"Our next speaker needs no introduction. He changed his mind and stayed home."*

Brian Pitts
Ramona, South Dakota

Guide to tourists on overhead tram: *"We are now riding over an artificial African plain, as we round the corner we will be directly over the most unusual compound of all where cougars, falcons, barracudas, mustangs, and even bugs are gathered in one compound."* The tourists stretched to see this unusual phenomenon. They were coming out over a parking lot.

Glen Clark
Simpsonville, Kentucky

Two men were fighting. One swung at the other with a terrific force, but the other always dodged. *"Why do you keep dodging?"* the man yelled.

"Didn't you know," the other answered, *"I'm one of the 'Dodge Boys'."*

David Bonds
Lovington, New Mexico

What did the butterfly say to the caterpillar?

Come fly with me.

Brian Scharber
Tenino, Washington

Washington state recently made a law that you have to carry a litterbag in your car. One stationwagon driver, the father of six youngsters, was stopped on the highway during a routine check. After examining his drivers license he was asked if he had a litterbag.

"Carrying a litterbag," exclaimed the driver, *"I'm driving one."*

Larry Hunt
Royal Center, Indiana

"What is the meaning of Easter?"

It's when the rabbits take blame for what the chickens did last winter."

Scott Snow
Scranton, Arkansas

Q.: Why was the mother flea crying?

A.: Because her children had gone to the dogs.

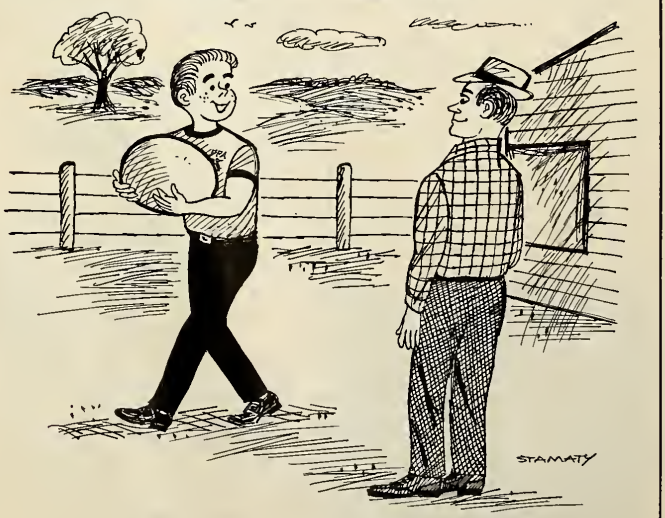
Steven Reed
Hamilton, Missouri

Teacher: *"What's the future of coal?"*

John: *"Smoke."*

Jace Suggs
Webb, Alabama

Charlie, the Greenhand



"It's a new project—testing the power of suggestion of this plastic egg on chickens."

The National FUTURE FARMER *will pay $1.00 for each joke selected for publication on this page. Jokes must be submitted on post cards addressed to* The National FUTURE FARMER, *Alexandria, Virginia 22309. In case of duplication, payment will be for the first one received. Contributions cannot be acknowledged or returned.*

Western Favorites...
Ken Curtis, who portrays FESTUS on the TV favorite, "Gunsmoke", has his own favorite brand of boots . . . Tony Lama. Ken knows you can't beat Tony Lama for selection, comfort and fashion styling. Find out for yourself at your nearest Tony Lama dealer.
Tony Lama ®
COMPANY, INC.
P. O. DRAWER 9518 • EL PASO, TEXAS 79985
Stock #6253
Stock #6216
Children's Stock #1038
Stock #8017

The new Model 1400: The best reason yet to break the same-old-combine habit!

We're coming on strong in combines: We may not be the biggest, but we try to be the best.

When people hear the name "New Holland," they often think only of hay balers... or forage harvesters... or spreaders.

Which is all well and good.

But we've also got something else going for us that isn't widely known (although we're trying to correct that!)—68 years of grain-harvesting experience.

That's what we want to dramatize with this new Model 1400 combine. The engineering is new... the styling is new... even the color is new!

But most important, when you climb aboard and start to work, you'll get the best news —grainpower like never before.

That's all that really counts with farmers: performance. And that's exactly the area in which Sperry New Holland has earned its reputation.

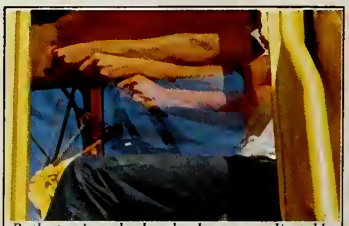
In fact, that's how we got to be among the leaders in the world in sales of such self-propelled combines as this.

If you'd like to know more about us, write to Dept. 215, Sperry New Holland Division of Sperry Rand Corporation, New Holland, Pennsylvania 17557.

SPERRY NEW HOLLAND

Reciprocating sieves reduce combine "bounce."

Exclusive Side door lets you check the cylinder!


Both steering wheel and column are adjustable.